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1930

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SECOND BIBLIOGRAPHY AND CATALOGUE
OF THE
FOSSIL VERTEBRATA OF NORTH AMERICA

BY

OLIVER PERRY HAY

Vol. II

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PREFATORY NOTE

The present volume completes the *Second Bibliography and Catalogue of the fossil Vertebrata of North America.* The work considerably exceeds in size the author's early estimates. It is hoped, however, that the book will not on that account be less useful.

While every reasonable effort has been made to secure accuracy of reference to original sources and citation to the vertebrate categories, it must be realized that each reference ought to be verified before acceptance. Nor will any one understand that he must adopt the classification presented or even the generic or specific names employed. Each person must depend on his own judgment. Nevertheless the writer hopes that the book will lend assistance to every user.

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SECOND BIBLIOGRAPHY AND CATALOGUE OF THE FOSSIL VERTEBRATA OF NORTH AMERICA

By Oliver Perry Hay

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CATALOGUE

ICHNITES.

Hay, O. P. 1902 A, 538.
Abel, O. 1926 B, 444 ("fährten").
Arldt, T. 1907 D, 669 (Ornithichnites).
Blake, W. P. 1884 A, 273.
Bronn, H. G. 1848 B, 851 (Ornithoidichnites).
Campbell, G. D. 1883 A, 578.
Carus and Engelmann 1861 A, 1812 ("thierfährten").
Cope, E. D. 1883 V, 69.
Dietrich, W. O. 1926 A, 614 ("fährten").
Gibbes, C. D. 1882 A, 1, pls.
Gilmore, C. W. 1921 C, 333 ("footprints").
 1926 C, xvi ("footprints").
 1926 D, 362, 5 figs.
 1926 G, 240.
 1927 C, 45-48.
 1927 F, 272 ("footprints").
Gilmore and Sturdevant 1928 A, 216 ("footprints").
Harkness, H. W. 1882 A, 1, pl.
Harkness, R. 1852 A, 246 ("footprints").
Hitchcock, C. H. 1898 A, 400 (Ichnozoa).
 1927 A, 166 (Ornithichnites).
Hitchcock and Grier 1927 A, 184-197.
Kirchner, H. 1926 A, 184.
 1927 A, 112 ("tierfährten").
Kukuk, P. 1926 A, 600 ("fährten").
Le Conte, J. 1882 A, 1.
 1882 B, 1.
Lull, R. S. 1918 B, 200 ("footprints").
Lyell, C. 1845 B; I, 252 ("Ornithichnites").
Mantell, G. A. 1844 A, 810 (Ornithichnites).
Marsh, O. C. 1883 B, 139.
Miller, H. 1857 A, 113 ("footprints").
Moodie, R. L. 1928 B, 215 ("footprints").
Mudge, B. F. 1873 A, 228 ("footprints").
Murchison, R. I. 1843 B, 141 ("ornithichnites").
Owen, R. 1842 F, 86 ("ornithichnites").
Pabst, W. 1896 A, 638.
 1900 A, 48, 59 ("thierfährten").
 1905 A, 1, 361 ("thierfährten").
 1908 A, 325 ("thierfährten").
Rogers, H. D. 1844 A, 248 ("bird-tracks").

Dr. R. S. Lull has proposed the following nine families for the reception of the foot-prints found in the Connecticut Valley. In the present work the genera are arranged alphabetically.

ANCHISAURIPODIDÆ Lull.

Lull, R. S. 1904 A, 486.
Lull, R. S. 1915 A, 180.

ANOMŒPODIDÆ Lull.

Lull, R. S. 1904 A, 499.
Lull, R. S. 1915 A, 208.

BATRACHOPODIDÆ Lull.

Lull, R. S. 1904 A, 482.
Lull, R. S. 1915 A, 174.

EUBRONTIDÆ Lull.

Lull, R. S. 1904 A, 510.
Lull, R. S. 1915 A, 194.

GIGANDIPODIDÆ Lull.

Lull, R. S. 1904 A, 492.
Lull, R. S. 1915 A, 191.

GRALLATORIDÆ Lull.

Lull, R. S. 1904 A, 494.
Lull, R. S. 1915 A, 200.

OTOUPHEPODIDÆ Lull.

Lull, R. S. 1915 A, 187.

OTOZOIDÆ Lull.

Lull, R. S. 1904 A, 513.

Lull, R. S. 1915 A, 222.

SELENICHIDÆ Lull.

Lull, R. S. 1915 A, 206.

GENERA AND SPECIES.

AGOSTOPUS Gilmore. Type *A. matheri* Gilmore.

Gilmore, C. W. 1926 A, 23.
1927 D, 26.

Agostopus matheri Gilmore.

Gilmore, C. W. 1926 A, 23, 36, pl. x; text-fig. 16.
1927 D, 26, 28.
Permian (Coconino); Arizona.

Agostopus medius Gilmore.

Gilmore, C. W. 1927 D, 27, pl. viii; text-fig. 11.
1927 D, 4 (A. robustus; nom. nud.).
1928 A, 15 (A. robustus; nom. nud.).
Permian (Coconino); Arizona.

ALLOPUS Marsh. Type *A. littoralis* Marsh.

Hay, O. P. 1902 A, 538.
Gilmore, C. W. 1926 A, 30.
Tilton, J. L. 1926 B, 391.

Allopus ? arizonæ Gilmore.

Gilmore, C. W. 1926 A, 29, pl. xi, fig. 2; text-fig. 2.
1927 D, 26 (This genus?).

Tilton, J. L. 1926 B, 391.
Permian (Coconino); Arizona.

Allopus littoralis Marsh.

Hay, O. P. 1902 A, 538.
Abel, O. 1912 F, 67.
Gilmore, C. W. 1926 A, 30.
Pennsylvanian; Kansas.

AMBLYOPUS Gilmore. Type *A. pachypodus* Gilmore.

Gilmore, C. W. 1927 D, 29.

Amblyopus pachypodus Gilmore.

Gilmore, C. W. 1927 D, 29, pl. ix; text-fig. 12.
Permian (Coconino); Arizona.

AMBLYPUS E. Hitchcock. Type *A. dextratus* E. Hitchcock.

Hay, O. P. 1902 A, 538.
Lull, R. S. 1904 A, 530.
1915 A, 249.
1917 D, 123.

Amblypus dextratus E. Hitchcock.

Hay, O. P. 1902 A, 538.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 530.
1915 A, 249, fig. 107.
1917 D, 123.
Triassic (Newark); Massachusetts.

AMMOBATRACHUS Gilmore. Type *A. turbatans* Gilmore.

Gilmore, C. W. 1928 A, 8.

Ammobatrachus montanensis Gilmore.

Gilmore, C. W. 1928 D, 1, pls. i-iii; text-fig. 1.
Paleocene (Fort Union); Montana.

Ammobatrachus turbatans Gilmore.

Gilmore, C. W. 1928 A, 8, pl. ii; text-fig. 4.
1928 D, 3.
Permian (Supai); Arizona.

AMMOPUS Marsh. Type *A. marshi* Lull.

Marsh, O. C. 1896 C, pl. v, fig. 1 (No description; no species).
Abel, O. 1926 B, 36.
Lull, R. S. 1915 A, 263.
1917 D, 126.
Nopcsa, F. 1923 C, 464, fig. 3.
1923 H, 145, 146.

Ammopus marshi Lull.

Lull, R. S. 1915 A, 264, figs. 125, 126.
1917 D, 126.
Triassic (Newark); Massachusetts.

ANCHISAURIPUS Lull. Type *A. sillimani* (E. Hitchcock).

Lull, R. S. 1904 A, 486.
Hay, O. P. 1902 A, 543 (Eubrontes, part).
Abel, O. 1911 A, 156.
1912 F, 271, 659.

Abel, O. 1926 B, 36, 38, 438.
1926 G (146).
Lull, R. S. 1905 C, 299.
1910 A, 14.
1915 A, 180.
1917 D, 114.
Nopcsa, F. 1923 C, 464, fig. 2.
1923 H, 145, 146 (Anchisauropus).
Reichbach, H. G. L. 1853 A, xxx (Cybele, type Ornithichnites tuberosus E. Hitchcock).

Anchisauripus dananus (E. Hitchcock).

Hitchcock, E. 1843 A, 256, pl. xi, fig. 2 (Ornithoidichnites).
Hay, O. P. 1902 A, 543 (Eubrontes dananus, part).
Abel, O. 1911 A, 157 (A. dananus).
1912 F, 403, fig. 287 (A. dananus).
Hay, O. P. 1910 C, 13 (A. dananus).
Heilmann, G. 1926 A, 180, fig. 130 (A. sillimani).
Hitchcock, E. 1845 B, 23 (Eubrontes dananus, part).
1847 A, 49 (Brontozoum sillimanium).
1858 A, 68, pl. xii, fig. 3; pl. xxxiii, figs. 4, 5; pl. xliii, fig. 6 (part).
Hitchcock and Grier 1927 A, 186, 187, 188, 190, 191, 197 (A. sillimani).
Lull, R. S. 1904 A, 470, 487, fig. 4 (A. dananus).
1915 A, 141, 181, 223. fig. 38 (A. sillimani).
1917 D, 114 (A. sillimani).
Lyman, B. S. 1894 A, 205, 209, 210, 213 (Brontozoum sillimanium).
Rice and Gregory 1906 A, 175, text-figs. 4, 5 (A. dananus).
Triassic (Newark); Massachusetts, Connecticut, Pennsylvania.

Anchisauripus exsertus (E. Hitchcock).

Hay, O. P. 1902 A, 543 (Eubrontes).
Abel, O. 1911 A, 157.
Hitchcock and Grier 1927 A, 193.
Lull, R. S. 1904 A, 489, fig. 7.
1915 A, 184, fig. 41.
1917 D, 114.
Lyman, B. S. 1894 A, 205, 210 (Brontozoum).
Triassic (Newark); Massachusetts, Connecticut.

Anchisauripus hitchcocki Lull.

Lull, R. S. 1904 A, 488, fig. 5.
Heilmann, G. 1926 A, 180, fig. 130.
Hitchcock and Grier 1927 A, 186, 187, 189, 191 (A. hitchcockii).
Lull, R. S. 1915 A, 182, fig. 39.
1917 D, 114.
Triassic (Newark); Massachusetts.

Anchisauripus minusculus (E. Hitchcock).

Hay, O. P. 1902 A, 544 (Eubrontes).
Hitchcock and Grier 1927 A, 191.
Lull, R. S. 1904 A, 490, fig. 8.
1915 A, 185, fig. 42.
1917 D, 114.
Lyman, B. S. 1894 A, 205, 206, 209, 210, 213 (Brontozoum).
Triassic (Newark); Massachusetts.

Anchisauripus parallelus (E. Hitchcock).

Hay, O. P. 1902 A, 545 (Grallator).
Heilmann, G. 1926 A, 180, fig. 130.
Lull, R. S. 1904 A, 490, fig. 9.
1915 A, 187, fig. 43.
1917 D, 114.
Lyman, B. S. 1894 A, 205, 213, 214.
Triassic (Newark); Massachusetts, New Jersey.

Anchisauripus tuberatus (E. Hitchcock).

Hay, O. P. 1902 A, 544 (Eubrontes).
Lull, R. S. 1904 A, 491, fig. 10.
1915 A, 187 (Anchisauripus); 199, fig. 52 (Eubrontes).
1917 D, 116 (Eubrontes tuberatus).
Lyman, B. S. 1894 A, 206 (Brontozoum).
Triassic (Newark); Massachusetts.

Anchisauripus tuberosus (E. Hitchcock).

Hay, O. P. 1902 A, 544 (Eubrontes).
Abel, O. 1926 B, 24, fig. 14.
Cushman, J. A. 1907 A, 273 (Brontozoum validum).
Hitchcock and Grier 1927 A, 187, 193.
Lull, R. S. 1904 A, 488, fig. 6.
1915 A, 182, fig. 40.
1917 D, 114.
1927 A, 48, fig. 1.
Lyman, B. S. 1894 A, 205, 210 (Brontozoum validum).
Reichenbach, H. G. L. 1853 A, xxx (Cybele).
Triassic (Newark); Massachusetts.

Anchisauripus sp. indet.

Thorpe, M. R. 1928 A, 39.
Triassic (Newark); Connecticut.

ANCYROPUS E. Hitchcock. Type *Sauroidichnites heteroclitus* E. Hitchcock.

Hay, O. P. 1902 A, 538.
Lull, R. S. 1904 A, 528.
1915 A, 247.
1917 D, 123.

Ancyropus heteroclitus E. Hitchcock.

Hay, O. P. 1902 A, 538.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 529.
1915 A, 247, fig. 105.
1917 D, 123.
Lyman, B. S. 1894 A, 211.
Triassic (Newark); Connecticut, Massachusetts.

ANOMALOPUS Gilmore. Type *A. sturdevanti* Gilmore.

Gilmore, C. W. 1927 D, 68.

Anomalopus sturdevanti Gilmore.
Gilmore, C. W. 1927 D, 10, 68, pl. xx; text-fig. 36.
Permian (Supai); Arizona.

ANOMŒPUS E. Hitchcock. Type *A. scambus* E. Hitchcock.

Hay, O. P. 1902 A, 539.
Abel, O. 1912 F, 271, 660.
1926 B, 36, 39, 438.
Heilmann, G. 1926 A, 203, fig. 115.
Hitchcock, C. H. 1898 A, 401.
Lucas, F. A. 1901 J, 39.
Lull, R. S. 1904 A, 500, 544.
1905 C, 299.
1915 A, 208.
1917 D, 117, pl. iii, fig. 3.
1924 A, 260.
Nopcsa, F. 1923 C, 464, fig. 3.
1923 H, 145, 146.
Osborn, H. F. 1917 B, 211, fig.
Reichenbach, H. G. L. 1853 A, xx, xxi, xxxi (Hitchcockia, type *Ornithichnites gracillimus* E. Hitch.); xxii (*Deanea*, type *O. fuliculoides*).
Wyman, J. 1867 B, 249.

Anomœpus crassus (C. H. Hitchcock).
Hay, O. P. 1902 A, 540 (Apatichnus).
Lull, R. S. 1904 A, 503, fig. 23.
1915 A, 212, fig. 65.
1917 D, 118.
Lyman, B. S. 1894 A, 214 (Apatichnus).
Triassic (Newark); New Jersey.

Anomœpus? culbertsonii (King).
Hay, O. P. 1902 A, 539.
Gilmore, C. W. 1927 D, 10.
Matthew, G. F. 1903 D, 113 (Ornithichnites).
Nopcsa, F. 1923 H, 137 (Ornithichnites).
Pennsylvanian; Pennsylvania.

Anomœpus cuneatus C. H. Hitchcock.
Hay, O. P. 1902 A, 539.
Lull, R. S. 1904 A, 504.
1915 A, 215.
1917 D, 118.
Triassic (Newark); Massachusetts, Connecticut.

Anomœpus curvatus E. Hitchcock.
Hay, O. P. 1902 A, 539.
Abel, O. 1926 B, 20, fig. 10.
Lull, R. S. 1904 A, 474, 502, fig. 22.
1915 A, 212, fig. 64.
1917 D, 118.
Lyman, B. S. 1894 A, 205, 209.
Triassic (Newark); Massachusetts.

Anomœpus? gallinuloides (King).
Hay, O. P. 1902 A, 539.
Matthew, G. F. 1903 D, 113, pl. ii, fig. 1 (Ornithichnites).
Nopcsa, F. 1923 H, 137 (Ornithichnites).
Pennsylvanian; Pennsylvania.

Anomœpus giganteus Hitchcock and Grier.
Hitchcock and Grier 1927 A, 187.
Triassic (Newark); Massachusetts.

Anomœpus gracillimus (E. Hitchcock).
Hay, O. P. 1902 A, 539.
Hitchcock and Grier 1927 A, 187.
Lull, R. S. 1904 A, 504.
1915 A, 214, fig. 67.
1917 D, 118.
Lyman, B. S. 1894 A, 205, 210 (Grallator).
Reichenbach, H. G. L. 1853 A, 29 (Hitchcockia gracilis); xx, xxi (Hitchcockia gracillima, H. fulicaria).
Triassic (Newark); Connecticut, Massachusetts, Pennsylvania.

Anomœpus intermedius E. Hitchcock.
Hay, O. P. 1902 A, 539 (A. intermedius); 550 (Plesiornis minor).
Abel, O. 1911 A, 158, 174.
1912 F, 277.
Cushman, J. A. 1907 A, 274 (Plesiornis quadrupes).
Heilmann, G. 1926 A, 159, fig. 113.
Lull, R. S. 1904 A, 470, 501, figs. 19-21.
1915 A, 210, figs. 62, 63.
1917 B, 414, 509, fig. 101.
1917 D, 117.
Lyman, B. S. 1894 A, 205, 213 (A. intermedius); 205, 206 (Plesiornis quadrupes); 210, 214 (Brontozoum isodactylum).
Reichenbach, L. 1852 A, xxii (Deanea fulicoides).
Triassic (Newark); Massachusetts, Connecticut, New Jersey.

Anomœpus isodactylus C. H. Hitchcock.
Hay, O. P. 1902 A, 539.
Abel, O. 1926 B, 21.
Lull, R. S. 1904 A, 505, fig. 25.
1915 A, 215, fig. 68.
1917 D, 118.
Triassic (Newark); Massachusetts.

Anomœpus major E. Hitchcock.
Hay, O. P. 1902 A, 539.
Lyman, B. S. 1894 A, 207.
Triassic (Newark); Massachusetts, New Jersey.

Anomœpus minimus E. Hitchcock.
Hay, O. P. 1902 A, 539.
Abel, O. 1912 F, 70.
Lull, R. S. 1904 A, 503, fig. 24.
1915 A, 213, fig. 66.
1917 D, 118.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Massachusetts.

Anomœpus scambus E. Hitchcock.
Hay, O. P. 1902 A, 539.
Abel, O. 1912 F, 273, 277, fig. 200.
Heilmann, G. 1926 A, 158, figs. 112, 114, 116.
Lull, R. S. 1904 A, 500, fig. 18.
1912 D, 415, fig. 5.
1915 A, 209, fig. 61.
Lull, R. S. 1917 D, 117.
Lyman, B. S. 1894 A, 205, 214 (A. minor).
Triassic (Newark); Massachusetts.

Anomœpus sp. indet.
Hitchcock and Grier 1927 A, 196, 197.
Triassic (Newark); Massachusetts.

ANTHRACOPUS Leidy. Type *A. ellangowensis* Leidy.

Hay, O. P. 1902 A, 539.
Gilmore, C. W. 1927 D, 51, text-fig. 24.
Matthew, G. F. 1903 D, 109 (Syn. of *Palæosauropus* Hay).

Anthracopus ellangowensis Leidy.
Hay, O. P. 1902 A, 539.
Matthew, G. F. 1903 B, 104.
1903 D, 112.
Pennsylvanian; Pennsylvania.

ANTICHEIROPUS E. Hitchcock. Type *A. pilulatus* E. Hitchcock.

Hay, O. P. 1902 A, 539.
Hitchcock, C. H. 1898 A, 401.
Lull, R. S. 1904 A, 540.
A genus of doubtful validity.

Anticheiropus hamatus E. Hitchcock.
Hay, O. P. 1902 A, 539.
Hitchcock and Grier 1927 A, 186.
Lull, R. S. 1904 A, 541.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Massachusetts.

Anticheiropus pilulatus E. Hitchcock.
Hay, O. P. 1902 A, 539.
Hitchcock and Grier 1927 A, 192.
Lull, R. S. 1904 A, 540.
Lyman, B. S. 1894 A, 210.
Triassic (Newark); Massachusetts.

ANTIPUS E. Hitchcock. Type *A. flexiloquus* E. Hitchcock.

Hay, O. P. 1902 A, 540.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 536.
1913 A, 257.
1917 D, 125.

Antipus bifidus E. Hitchcock.
Hay, O. P. 1902 A, 540.
Lull, R. S. 1904 A, 536.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

Antipus flexiloquus E. Hitchcock.
Hay, O. P. 1902 A, 540.
Lull, R. S. 1904 A, 536.
1915 A, 258, fig. 117.
1917 D, 125.
Lyman, B. S. 1894 A, 206 (Orthodactylus).
Triassic (Newark); Massachusetts.

APATICHNUS E. Hitchcock. Type *A. circumagens* E. Hitchcock.

Hay, O. P. 1902 A, 540.
Abel, O. 1912 F, 272.
1926 B, 36.
Hitchcock, C. H. 1898 A, 401.
Lull, R. S. 1904 A, 508.
1915 A, 220.
1917 D, 118.
Nopcsa, F. 1923 C, 464, fig. 2.
1923 H, 145, 146.

Apatichnus circumagens E. Hitchcock.
Hay, O. P. 1902 A, 540.
Lull, R. S. 1904 A, 508, fig. 29.
1915 A, 220, fig. 72.
1917 D, 118.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

Apatichnus holyokensis C. H. Hitchcock.
Hay, O. P. 1902 A, 540.
Lull, R. S. 1915 A, 211 (Syn. of Anomœpus intermedius).
Triassic (Newark); Massachusetts.

Apatichnus minor (E. Hitchcock).
Hay, O. P. 1902 A, 545 (Gigandipus).
Abel, O. 1911 A, 158.
Lull, R. S. 1904 A, 509, fig. 30.
1915 A, 221, fig. 73.
1917 D, 119.
Lyman, B. S. 1894 A, 206 (Gigantitherium).
Triassic (Newark); Massachusetts.

ARACHNICHNUS E. Hitchcock. Type *A. dehiscens* E. Hitchcock.

Hay, O. P. 1902 A, 540.
Lull, R. S. 1904 A, 538.
1915 A, 261.
1917 D, 126.

Arachnichnus dehiscens E. Hitchcock.
Hay, O. P. 1902 A, 540.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 539.
1915 A, 261, fig. 122.
1917 D, 126.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

ARGOIDES E. Hitchcock. Type *A. isodactylus* E. Hitchcock.

Hay, O. P. 1902 A, 540.
Hitchcock, C. H. 1898 A, 401 (Argozoum).
Lull, R. S. 1904 A, 518.
1915 A, 230.
1917 D, 120.
Reichenbach, L. 1853 A, 25, xii, xix (Argoides); 25, xxii, xxx (Berycynthia, type *Ornithichnites redfieldii* E. Hitchcock).

Argoides isodactyletus E. Hitchcock.

Hay, O. P. 1902 A, 540 (A. isodactylatus).
Lull, R. S. 1904 A, 518.
1915 A, 230 (Syn. of A. minimus).
Lyman, B. S. 1894 A, 209, 211 (Argozoum paridigitatum).
Triassic (Newark); Massachusetts.

Argoides macrodactylotus (E. Hitchcock).

Hay, O. P. 1902 A, 540 (A. macrodactylatus).
Hitchcock and Grier 1927 A, 197.
Lull, R. S. 1904 A, 519.
1915 A, 231, fig. 85 (A. macrodactylus).
1917 D, 120.
Lyman, B. S. 1894 A, 206 (Argozoum); 209, 211, 214 (Argozoum disparidigitatum).
Triassic (Newark); Connecticut.

Argoides minimus E. Hitchcock.

Hay, O. P. 1902 A, 550 (Plesiornis).
Hitchcock and Grier 1927 A, 196.
Lull, R. S. 1915 A, 230, pl. i, fig. 84.
1917 D, 120.
Lyman, B. S. 1894 A, 209 (Plesiornis æqualipes).
Triassic (Newark); Massachusetts, Connecticut.

Argoides redfieldianus E. Hitchcock.

Hay, O. P. 1902 A, 540.
Lull, R. S. 1904 A, 519.
1915 A, 232 (A. redfieldii).
1917 D, 120 (A. redfieldii).
Lyman, B. S. 1894 A, 211 (Argozoum).
Reichenbach, L. 1853 A, 35, xxx, (Berycynthia redfieldii).
Triassic (Newark); Massachusetts.

Argoides robustus E. Hitchcock.

Hay, O. P. 1902 A, 540.
Lull, R. S. 1904 A, 519.
Triassic (Newark); Massachusetts.

ARTIODACTYLUS Abel. Type *A. sinclairi* Abel.

Abel, O. 1926 B, 42.

Artiodactylus sinclairi Abel.

Abel, O. 1926 B, 42, 52, fig. 23.
Triassic (Stockton); New Jersey.

ASPERIPES Matthew. Type *A. avipes* Matthew.

Matthew, G. F. 1903 C, 99.
Gregory, W. K. 1915 D, 368.
Matthew, G. F. 1904 A, 86.

Asperipes avipes Matthew.

Matthew, G. F. 1903 C, 101, pl. i, fig. 3.
Gregory, W. K. 1915 D, 368.
Lambe, L. M. 1904 C, 36, 46.
Matthew, G. F. 1904 A, 87, 88, pl. i, fig. 2.
Coal Measures; Nova Scotia.

Asperipes caudifer (Dawson).

Hay, O. P. 1902 A, 546 (Hylopus).
Gilmore, C. W. 1927 D, 46 (Hylopus. Referred to Asperipes).
Lambe, L. M. 1904 C, 36, 46 [A. (Hylopus)].
Matthew, G. F. 1903 C, 102 (Hylopus?).
1903 D, 102, 112, 114, pl. iii, fig. 3 (Hylopus).
1904 A, 88 (Hylopus?); 90, pl. ii, fig. 1; pl. vi, fig. 5 (Asperipes).
Coal Measures; Nova Scotia.

Asperipes flexilis Matthew.

Matthew, G. F. 1904 A, 89, pl. i, fig. 3; pl. vi, figs. 3, 4.
Coal Measures; Nova Scotia.

BARILLOPUS Matthew. Type *B. unguifer* Matthew.

Matthew, G. F. 1903 C, 103.
Gilmore, C. W. 1926 A, 11, 25.
Matthew, G. F. 1903 D, 115.
1904 A, 94.

Barillopus arctus Matthew.

Matthew, G. F. 1904 A, 95, pl. iii, fig. 1.
Gilmore, C. W. 1926 A, 12, text-fig. 7.
Coal Measures; Nova Scotia.

Barillopus confusus Matthew.

Matthew, G. F. 1904 A, 95, pl. iii, fig. 2.
Nopcsa, F. 1923 H, 135.
Coal Measures; Nova Scotia.

Barillopus unguifer Matthew.

Matthew, G. F. 1903 C, 104, pl. i, fig. 5.
Lambe, L. M. 1904 C, 36, 46.
Matthew, G. F. 1903 B, 104, pl. ii, fig. 2 (Baropus).
1903 D, 113, 115 (Baropus).
1904 A, 94.
Coal Measures; Nova Scotia.

BAROPEZIA Matthew. Type *Sauropus sydnensis* Dawson.

Matthew, G. F. 1903 C, 105.
Gilmore, C. W. 1926 A, 18.
Matthew, G. F. 1904 A, 99.
Abel, O. 1926 B, 208.
Permian (Coconino); Arizona.

Baropezia abscissa Matthew.

Matthew, G. F. 1904 A, 101, pl. v, fig. 4.
Gilmore, C. W. 1926 A, 20, text-fig. 13.
1926 N, 20, fig. 2.
Nopcsa, F. 1923 H, 135-136.
Coal Measures; Nova Scotia.

Baropezia eakini Gilmore.

Gilmore, C. W. 1926 A, 18, 35, pls. viii, ix; text-fig. 11.

Baropezia sydnensis (Dawson).

Hay, O. P. 1902 A, 548 (Palæosauropus sydenensis).
Gilmore, C. W. 1926 A, 20; text-fig. 12.
Lambe, L. M. 1904 C, 36, 46 [B. (Sauropus)].
Matthew, G. F. 1903 C, 106, pl. i, fig. 1 ("Sauropus," "Baropezia").
1903 D, 110, 113 (Sauropus).
1904 A, 100, pl. v, fig. 3.
Nopcsa, F. 1923 H, 136.
Coal Measures; Nova Scotia.

BAROPUS Marsh. Type *B. lentus* Marsh.

Hay, O. P. 1902 A, 541.
Gilmore, C. W. 1927 D, 23.
Matthew, G. F. 1903 C, 104.
1904 A, 94.

Baropus coconinoensis Gilmore.

Gilmore, C. W. 1927 D, 24, pl. vii; text-fig. 9.
Permian (Coconino); Arizona.

Baropus lentus Marsh.

Hay, O. P. 1902 A, 541.
Abel, O. 1912 F, 67.
Gilmore, C. W. 1927 D, 23, text-fig. 10.
Hickling, G. 1909 A, 30, pl. iv, fig. 33.
Jaekel, O. 1909 B, 596, fig. 7.
Martin, H. T. 1922 B, 105.
Matthew, G. F. 1903 D, 113, pl. iii, fig. 6.
Pennsylvanian; Kansas.

BARYPODUS Gilmore. Type *B. palmatus* Gilmore.

Gilmore, C. W. 1926 A, 27.
1927 D, 19.

Barypodus metszeri Gilmore.

Gilmore, C. W. 1927 D, 21, pl. vi; text-fig. 8.
Permian (Coconino); Arizona.

Barypodus palmatus Gilmore.

Gilmore, C. W. 1926 A, 27, pl. xi, fig. 1; text-fig. 18.
Gilmore, C. W. 1927 D, 1, 19.
Permian (Coconino); Arizona.

Barypodus tridactylus Gilmore.

Gilmore, C. W. 1927 D, 20, pl. v; text-fig. 7.
1927 B, 47, fig. 53 ("footprint").
Permian (Coconino); Arizona.

BATRACHICHNUS Woodworth. Type *B. plainvillensis* Woodworth.

Hay, O. P. 1902 A, 541 (Batrachichnus).
Gilmore, C. W. 1927 D, 541.

Batrachichnus celer (Matthew).

Matthew, G. F. 1903 B, 106, pl. ii, fig. 3 (Dromopus).
Gilmore, C. W. 1927 D, 36, 40 (Dromopus, Batrachichnus).
Lambe, L. M. 1904 C, 36, 46 (Dromillopus).
Matthew, G. F. 1903 D, 112, 114 (Dromopus).
1904 A, 91 (Dromopus).
Carboniferous; Nova Scotia.

Batrachichnus delicatulus (Lull).

Lull, R. S. 1918 A, 344, pl. iii, fig. 1; text-fig. 4 (Exocampe?).
Abel, O. 1926 B, 215 (Exocampe?).
Gilmore, C. W. 1927 D, 36, pl. xii; text-figs. 15, 16.
Schuchert, C. 1918 A, 354 (Exocampe?).
Permian (Hermit); Arizona.

Batrachichnus jacksonensis (Butts).

Butts, E. 1891 A, 18, fig. (Notalacerta).
Gilmore, C. W. 1927 D, 11, 36 (Notalacerta. Referred to Batrachichnus).
Matthew, G. F. 1903 D, 112, 115 (Notalacerta).
Coal Measures (Upper); Missouri.

Batrachichnus obscurus Gilmore.

Gilmore, C. W. 1927 D, 40, pl. xiii; text-fig. 17.
Permian (Hermit); Arizona.

Batrachichnus plainvillensis Woodworth.

Hay, O. P. 1902 A, 541.
Gilmore, C. W. 1927 D, 40, text-fig. 18.
Matthew, G. F. 1903 B, 107 (Batrachites).
1903 D, 112, 114.
1904 A, 91.
Carboniferous; Massachusetts.

BATRACHOIDES E. Hitchcock. Type *B. nidificans* E. Hitchcock.

Hay, O. P. 1902 A, 541.
Abel, O. 1926 B, 50-53.
1927 C, 329.
Hitchcock, C. H. in Hitchcock and Grier 1927 A, 189 (Koilosoma).

The objects to which this name was given are now regarded as of inorganic origin.

Batrachoides antiquior E. Hitchcock.
Hay, O. P. 1902 A, 541.
Abel, O. 1927 C, 329.
Kindle, E. M. 1914 A, 159, pl. viii (Not a fossil).
Triassic; Connecticut.

Batrachoides nidificans E. Hitchcock.
Hay, O. P. 1902 A, 541.
Abel, O. 1926 B, 50, figs. 27, 28.
1927 C, 329.
Hitchcock, C. H. 1898 A, 402.
Hitchcock and Grier 1927 A, 189 (Batrachoides); 193, 196 (Koilosoma).
Kindle, E. M. 1914 A, 159.
Lyman, B. S. 1894 A, 210.
Triassic (Newark); Connecticut.

BATRACHOPUS E. Hitchcock. Type *B. deweyanus* E. Hitchcock.

Hay, O. P. 1902 A, 541.
Abel, O. 1912 F, 70.
1926 B, 37.
Bronn, H. G. 1848 A, 148 (Batrachioidichnites).
Hitchcock, C. H. 1898 A, 402 (Anisichnus).
Lull, R. S. 1904 A, 479, 482, 546.
1904 B, 381.
1905 C, 299.
1915 A, 174.
1917 D, 113.
Nopcsa, F. 1923 H, 142, 143.

Batrachopus bellus (E. Hitchcock).
Hay, O. P. 1902 A, 540 (Apatichnus).
Lull, R. S. 1904 A, 485.
1915 A, 178, fig. 36.
1917 D, 113.
Lyman, B. S. 1894 A, 206 (Apatichnus).
Triassic (Newark); Massachusetts.

Batrachopus deweyanus E. Hitchcock.
Hay, O. P. 1902 A, 541.
Lansing, G. Y. 1854 A, 62 (Batrachoidichnites deweyi).
Lull, R. S. 1904 A, 483.
1915 A, 175, fig. 32 (B. deweyi).
1917 D, 113 (B. deweyi).
Lyman, B. S. 1894 A, 205, 206, 209, 210 (Anisopus).
Triassic (Newark); Massachusetts, Connecticut.

Batrachopus dispar Lull.
Lull, R. S. 1904 A, 483, fig. 2.
Lull, R. S. 1904 B, 382.
1915 A, 176, fig. 33.
1917 D, 113.
Triassic (Newark); Massachusetts.

Batrachopus gracilior (E. Hitchcock).
Hay, O. P. 1902 A, 541.
Hitchcock and Grier 1927 A, 194, 196.
Lull, R. S. 1904 A, 484.
1915 A, 177, fig. 35.
1917 D, 113.
Lyman, B. S. 1894 A, 205 (Anisopus).
Triassic (Newark); Massachusetts.

Batrachopus gracilis (E. Hitchcock).
Hay, O. P. 1902 A, 541.
Cushman, J. A. 1907 A, 273 (Anisopus).
Hitchcock and Grier 1927 A, 186, 189, 190.
Lull, R. S. 1904 A, 484, fig. 3.
1904 B, 382, fig. 1.
1915 A, 109, 177, fig. 34.
1917 D, 113.
Lydekker, R. 1905 B, 278.
Lyman, B. S. 1894 A, 205, 206, 207, 209, 210 (Anisopus).
Rice and Gregory 1906 A, 177, fig. 6.
Triassic (Newark); Massachusetts, Connecticut, New Jersey, Pennsylvania.

Batrachopus sp. indet.
Hitchcock and Grier 1927 A, 190.
Triassic (Newark); Massachusetts.
Thorpe, M. R. 1928 A, 39.
Triassic (Newark); Connecticut.

BIPEZIA Matthew. Type *B. bilobata* Matthew.

Matthew, G. F. 1910 A, 121.

Bipezia bilobata Matthew.
Matthew, G. F. 1910 A, 121, pl. iv, figs. 1, 2.
Devonian (Little River); New Brunswick.

CHEIROTHEROIDES E. Hitchcock. Type *C. pilulatus* E. Hitchcock.

Hay, O. P. 1902 A, 541.
Abel, O. 1926 B, 37.
Lull, R. S. 1904 A, 485.
1915 A, 179.
1917 D, 114.
Nopcsa, F. 1923 H, 142, 143 (Cheritheroides).

Cheirotheroides pilulatus E. Hitchcock.
Hay, O. P. 1902 A, 541.
Hitchcock, C. H. 1898 A, 402.

Lull, R. S. 1904 A, 485.
1915 A, 179, fig. 37.
1917 D, 114.

Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

CHELICHNUS Jardine. Type *Testudo duncani* Owen.

Hay, O. P. 1902 A, 542.
Harkness, R. 1852 A, 255.
Jardine, W. 1853 A, 9, pls. i-iii, vi, viii, x, xi.

Chelichnus wymanianus Lea.
Hay, O. P. 1902 A, 542.
Lyman, B. S. 1894 A, 212.
Triassic (Newark); Pennsylvania.

CHELONOIDES E. Hitchcock. Type *C. incedens* E. Hitchcock.

Hay, O. P. 1902 A, 542.
Lull, R. S. 1904 A, 529.
1915 A, 248.
1917 D, 123.

Chelonoides incedens E. Hitchcock.
Hay, O. P. 1902 A, 542.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 529.
1915 A, 248, fig. 106.
1917 D, 123.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

CHIROTHERIUM Kaup. Type *C. barthii* Kaup.

Hay, O. P. 1902 A, 542.
Abel, O. 1912 F, 275, 665.
1916 A, 469.
1926 B, 37, 441.
1926 G, (149).
Arldt, T. 1907 D, 337.
De la Beche, H. T. 1848 A, cxii (Cheirotherium).
Frech, F. 1919 A, 109.
Harkness, R. 1852 A, 254 (Cheirotherium).
Hitchcock and Grier 1927 A, 192 (Cheirotherium).
Kirchner, H. 1926 A, 184.
1927 A, 112.
Kukuk, P. 1926 A, 612.
Lull, R. S. 1904 A, 514, pl. lxxii.
Matthew, G. F. 1903 B, 107.
Nopcsa, F. 1923 H, 142, 143, 144.
Watson, D. M. S. 1914 C, 395 (Cheirotherium).

Chirotherium? heterodactylum (King).
Hay, O. P. 1902 A, 542.
Hickling, G. 1909 A, 30, pl. iv, fig. 28 (Thenaropus).
Matthew, G. F. 1903 B, 104 (Theranopus).
1903 D, 115 (Thenaropus).
Coal Measures; Pennsylvania.

Chirotherium parvum (C. H. Hitchcock).
Lull, R. S. 1915 A, 226, fig. 77 (This genus?).
1917 D, 119 (Cheirotherium?).
Triassic (Newark); New Jersey.

Chirotherium? reiteri Moore.
Hay, O. P. 1902 A, 542.
Pennsylvanian; Pennsylvania.

Chirotherium sp. indet.
Gilmore, C. W. 1927 D, 65, pl. xviii (This genus?). Permian (Hermit); Arizona.
Mudge, B. F. 1874 A, 73 (Cheirotherium. This genus?). Coal Measures; Kansas.

COLLETTOSAURUS Cox. Type *C. indianaënsis* Cox.

Hay, O. P. 1902 A, 542 (Collettosaurus); 547 (Notalacerta, Notamphibia).
Butts, E. 1891 B, 18 (Notalacerta); 44 (Notamphibia).
Gilmore, C. W. 1927 D, 58.

Collettosaurus indianaënsis Cox.
Hay, O. P. 1902 A, 542.
Gilmore, C. W. 1927 D, 58.
Matthew, G. F. 1903 D, 112, 115.
Pennsylvanian; Indiana.

Collettosaurus magnus (Butts).
Butts, E. 1891 B, 44 (Notamphibia).
Hay, O. P. 1902 A, 547 (Notamphibia).
Gilmore, C. W. 1927 D, 59, text-fig. 29 (C magna).
Pennsylvanian; Missouri.

Collettosaurus missouriensis (Butts).
Butts, E. 1891 A, 18, fig. 2 (Notalacerta).
Hay, O. P. 1902 A, 547 (Notalacerta).
Gilmore, C. W. 1927 D, 11 (Notalacerta); 59, text-fig. 30 (Collettosaurus).
Matthew, G. F. 1903 D, 111, 114, pl. iii, figs. 1, 1a (Notolacerta).
Nopcsa, F. 1923 H, 136 (Neolacerta).
Pennsylvanian; Missouri.

Collettosaurus pentadactylus Gilmore.
Gilmore, C. W. 1927 D, 60, pl. xix, fig. 1; text-fig. 32.
1928 A, 7, 8 (This species?).
1928 C, 8, fig. 8.
Permian (Hermit); Arizona.

COMPTICHNUS E. Hitchcock. Type *C. obesus* E. Hitchcock.

Hay, O. P. 1902 A, 542.
Abel, O. 1926 G, (149).
Lull, R. S. 1904 A, 538.
1915 A, 260.
1917 D, 126.

Comptichnus obesus E. Hitchcock.

Hay, O. P. 1902 A, 542.
Abel, O. 1926 G, (149).
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 538.
1915 A, 260, fig. 121.
1917 D, 126.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Massachusetts.

CORVIPES E. Hitchcock. Type *C. lacertoideus* E. Hitchcock.

Hay, O. P. 1902 A, 542.
Abel, O. 1912 F, 272.
1926 B, 36.
Lull, R. S. 1904 A, 509.
1915 A, 246.
1917 D, 123.
Nopcsa, F. 1923 C, 464, fig. 1.
1923 H, 145, 146.

Corvipes lacertoideus E. Hitchcock.

Hay, O. P. 1902 A, 542.
Hitchcock, C. H. 1898 A, 401.
Lull, R. S. 1904 A, 510.
1915 A, 246, fig. 104.
1917 D, 123.
Lyman, B. S. 1894 A, 205, 206, 209.
Triassic (Newark); Massachusetts, Connecticut.

CRUCIPES Butts. Type *C. parva* Butts.

Hay, O. P. 1902 A, 542.

Crucipes parva Butts.

Hay, O. P. 1902 A, 542 (C. parvus).
Gilmore, C. W. 1927 D, 11 (C. parvus).
Matthew, G. F. 1903 D, 113, 115.
Pennsylvanian (Kansas City); Missouri.

CUNICHNOIDES E. Hitchcock. Type *C. marsupialoides* E. Hitchcock.

Hay, O. P. 1902 A, 543.
Lull, R. S. 1904 A, 540.

Cunichnoides marsupialoides E. Hitchcock.

Hay, O. P. 1902 A, 543.
Lull, R. S. 1904 A, 540.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Connecticut.

CURSIPES Matthew. Type *C. dawsoni* Matthew.

Matthew, G. F. 1903 C, 102.
Gilmore, C. W. 1927 D, 63.
Matthew, G. F. 1904 A, 92.

Cursipes dawsoni Matthew.

Matthew, G. F. 1903 C, 103, pl. i, fig. 4.
Gilmore, C. W. 1927 D, 64.
Lambe, L. M. 1904 C, 36, 47.
Matthew, G. F. 1904 A, 93, pl. i, fig. 4.
Nopcsa, F. 1923 H, 135.
Coal Measures; Nova Scotia.

Cursipes levis Matthew.

Matthew, G. F. 1904 A, 93, pl. ii, fig. 3.
Gilmore, C. W. 1927 D, 64.
Coal Measures; Nova Scotia.

Cursipes sp. indet.

Gilmore, C. W. 1927 D, 63.
Permian (Hermit); Arizona.

DOLICHOPODUS Gilmore. Type *D. tetradactylus* Gilmore.

Gilmore, C. W. 1926 A, 6.
1927 D, 12.

Dolichopodus tetradactylus Gilmore.

Gilmore, C. W. 1926 A, 6, 35, pl. iv, fig. 1; text-fig. 2.
1927 D, 11, 13.
Permian (Coconino); Arizona.

DROMILLOPUS Matthew. Type *D. quadrifidus* Matthew.

Matthew, G. F. 1904 A, 91.
Gilmore, C. W. 1927 D, 42.

Dromillopus obtusus (Matthew).

Matthew, G. F. 1904 A, 98, pl. v, fig. 1 (Nanopus).
Gilmore, C. W. 1926 A, 12 (Nanopus).
1927 D, 14, fig. 4 ("3," *errore*) [Dromillopus (Nanopus) obtusis].
Pennsylvanian; Nova Scotia.

Dromillopus parvus Gilmore.
Gilmore, C. W. 1927 D, 42, pl. xiv; text-fig. 19.
Permian (Hermit); Arizona.

Dromillopus quadratus (Matthew).
Matthew, G. F. 1904 A, 98, pl. v, fig. 2 (Nanopus).
Gilmore, C. W. 1926 A, 12 (Nanopus).
1927 D, 11, 14, fig. 3 ("4," *errore*).
Pennsylvanian (Joggins); Nova Scotia.

Dromillopus quadrifidus Matthew.
Matthew, G. F. 1904 A, 91, pl. i, fig. 5.
Gilmore, C. W. 1927 D, 44, text-fig. 20.
Nopcsa, F. 1923 H, 135 (Dromopus).
Pennsylvanian; Nova Scotia.

DROMOPUS Marsh. Type *D. agilis* Marsh.

Hay, O. P. 1902 A, 543.
Branson, E. B. 1910 A, 358.
Fürbringer, M. 1900 A, 673.
Matthew, G. F. 1904 A, 91.

Dromopus aduncus Branson.
Branson, E. B. 1910 A, 358, fig. 1.
Moodie, R. L. 1911 C, 379.
1916 A, 37, pl. xviii, fig. 3.
Mississippian (Hinton); Virginia.

Dromopus agilis Marsh.
Hay, O. P. 1902 A, 543.
Abel, O. 1912 F, 67, fig. 24.
Gilmore, C. W. 1926 A, 8, text-fig. 3.
Hickling, G. 1909 A, 30, pl. iv, fig. 31.
Jaekel, O. 1909 B, 597, fig. 8.
Martin, H. T. 1922 B, 105.
Matthew, G. F. 1903 D, 112, pl. ii, figs. 3, 4.
1904 A, 93.
Moodie, R. L. 1916 A, 199, fig. 43.
Nopcsa, F. 1923 H, 136.
Williston, S. W. 1911 B, 40.
Pennsylvanian; Kansas.

Dromopus velox Matthew.
Matthew, G. F. 1904 A, 86, pl. ii, fig. 2.
Gilmore, C. W. 1927 D, 11, 60, text-fig. 31.
Pennsylvanian (Joggins); Nova Scotia.

Dromopus? woodworthi Lull.
Lull, R. S. 1920 B, 234, fig. 1.
Gilmore, C. W. 1927 D, 11.
Martin, H. T. 1922 B, 105.
Pennsylvanian (Alleghanian); Massachusetts.

DUOVESTIGIA Butts. Type *D. scala* Butts.

Butts, E. 1891 A, 19.

Duovestigia scala Butts.
Butts, E. 1891 A, 19, fig. 4.
Pennsylvanian; Missouri.

EUBRONTES E. Hitchcock. Type *E. giganteus* E. Hitchcock.

Hay, O. P. 1902 A, 543.
Abel, O. 1912 F, 70, 272.
1926 B, 36, 39, 444.
Gadow, H. 1901 B, 414 (Brontozoum).
Hitchcock, C. H. 1898 A, 401 (Brontozoum).
Huxley, T. H. 1876 F, 180 (Brontozoum).
Koken, E. 1893 B, 261 (Brontozoum).
Lull, R. S. 1904 A, 510, 544.
1905 C, 299.
1910 A, 17.
1915 A, 195.
1917 D, 115.
Nopcsa, F. 1923 H, 145 (Eubrontes, Brontozoum).
Reichenbach, L. 1853 A, xxx (Bellona, type *Ornithichnites gigantea* E. Hitchcock).

Eubrontes approximatus (E. Hitchcock).
Hay, O. P. 1902 A, 543.
Hitchcock and Grier 1927 A, 191, 194.
Lull, R. S. 1904 A, 511, fig. 32.
1915 A, 196, fig. 49.
1917 D, 116.
Lyman, B. S. 1894 A, 205, 206, 211, 214 (Brontozoum).
Triassic (Newark); Massachusetts, Connecticut, New Jersey.

Eubrontes divaricatus (E. Hitchcock).
Hay, O. P. 1902 A, 543.
Hitchcock and Grier 1927 A, 187, 193.
Lull, R. S. 1904 A, 512, fig. 33.
1915 A, 198, fig. 50.
1917 D, 116.
Lyman, B. S. 1894 A, 205, 209 (Brontozoum).
Triassic (Newark); Massachusetts, Connecticut, New Jersey.

Eubrontes expansus E. Hitchcock.
Hay, O. P. 1902 A, 543.
Hitchcock and Grier 1927 A, 186 (Brontozoum); 187, 190, 191, 196 (Anchisauripus).
Lull, R. S. 1915 A, 213.
Triassic (Newark); Massachusetts.

Eubrontes giganteus E. Hitchcock.
Hay, O. P. 1902 A, 543.
Abel, O. 1926 B, 28, fig. 16.
Cushman, J. A. 1907 A, 273 (Brontozoum).
Gadow, H. 1901 B, 420 (Brontozoum).
Heilmann, G. 1926 A, 180, fig. 130.
Hitchcock and Grier 1927 A, 187, 188, 192.
Lull, R. S. 1904 A, 510, 544, fig. 31.
1912 D, 420.
1915 A, 195, fig. 48.
1917 D, 115.
1924 A, 268.
Lyell, C. 1843 B, I, 254 (Ornithichnites).

Lyman, B. S. 1894 A, 204-213 (Brontozoum).
Reichenbach, L. 1853 A, 35, xxx (Bellona).
Serres, M. 1852 A, 118 (Ornithichnites).
Triassic (Newark); Massachusetts, Connecticut, New Jersey.

Eubrontes platypus Lull.
Lull, R. S. 1904 A, 512, fig. 34.
Abel, O. 1926 B, 25, fig. 15.
Gilmore, C. W. 1924 K, 16, fig. 2 ("footprints").
Heilmann, G. 1926 A, 180, fig. 130.
Lull, R. S. 1915 A, 199, fig. 51.
1917 D, 116.
Triassic (Newark); Massachusetts.

Eubrontes? titanopelopatidus Shuler.
Shuler, E. W. 1917 A, 294.
Lower Cretaceous (Glen Rose); Texas.

Eubrontes sp. indet.
Abel, O. 1926 B, 30, figs. 17, 18.
Triassic (Newark); Massachusetts.
Thorpe, M. R. 1928 A, 39.
Triassic (Newark); Connecticut.

EUPALAMOPUS Hay. Type *Palamopus dananus* E. Hitchcock=*P. clarki* E. Hitchcock.

Hay, O. P. 1902 A, 544.
Abel, O. 1926 B, 36.
Lull, R. S. 1904 A, 531.
1915 A, 250.
1917 D, 124.
Nopcsa, F. 1923 C, 464, fig. 3.
1923 H, 145, 146.

Eupalamopus dananus (E. Hitchcock).
Hay, O. P. 1902 A, 544.
Hitchcock, C. H. 1898 A, 402 (Palamopus clarkii).
Lull, R. S. 1904 A, 531.
1915 A, 250, fig. 108.
1917 D, 124.
Lyman, B. S. 1894 A, 210 (Palamopus clarki).
Triassic (Newark); Massachusetts.

EXOCAMPE E. Hitchcock. Type *E. arcta* E. Hitchcock.

Hay, O. P. 1902 A, 544.
Abel, O. 1926 B, 36.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 534.
1915 A, 254.
1917 D, 124.
Nopcsa, F. 1923 C, 464.
1923 H, 145.

Exocampe arcta E. Hitchcock.
Hay, O. P. 1902 A, 544.
Lull, R. S. 1904 A, 534.
1915 A, 254, fig. 112.
1917 D, 124.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

Exocampe minima E. Hitchcock.
Hay, O. P. 1902 A, 544.
Lull, R. S. 1904 A, 534.
1915 A, 255.
1917 D, 124.
Triassic (Newark); Massachusetts.

Exocampe ornata E. Hitchcock.
Hay, O. P. 1902 A, 544.
Hitchcock and Grier 1927 A, 195.
Lull, R. S. 1904 A, 534.
1915 A, 255, fig. 113.
1917 D, 124.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts, Connecticut.

FULICOPUS E. Hitchcock. Type *F. lyellianus* E. Hitchcock.

Hay, O. P. 1902 A, 544.
Abel, O. 1912 F, 272.
Hitchcock, C. H. 1898 A, 401 (Amblonyx).
Lull, R. S. 1904 A, 505, 545.

Fulicopus giganteus (E. Hitchcock).
Hay, O. P. 1902 A, 544.
Cushman, J. A. 1907 A, 273 (Amblonyx).

Lyman, B. S. 1894 A, 205 (Amblyonyx).
Triassic (Newark); Massachusetts, Connecticut, New Jersey.

Fulicopus lyellianus (E. Hitchcock).
Hay, O. P. 1902 A, 544.
Abel, O. 1911 A, 174.
1912 F, 69, 277, fig. 26.
Lull, R. S. 1904 A, 472, 474, 506, figs. 26-28.
Lyman, B. S. 1894 A, 205 (Amblyonyx).
Triassic (Newark); Massachusetts.

GIGANDIPUS E. Hitchcock. Type *G. caudatus* E. Hitchcock.

Hay, O. P. 1902 A, 545.
Abel, O. 1912 F, 271, 276.
1926 B, 36.
Hitchcock, C. H. 1898 A, 401 (Gigantitherium).
Lull, R. S. 1904 A, 492.
1905 C, 299.
1910 A, 14.

Lull, R. S. 1915 A, 191.
1917 D, 115.
Nopcsa, F. 1923 C, 464.
1923 H, 146, 147, pl. vi. fig. 11*a*.

Gigandipus caudatus E. Hitchcock.
Hay, O. P. 1902 A, 545.

Abel, O. 1911 A, 157.
1912 F, 404, fig. 288.
Heilmann, G. 1926 A, 180, fig. 130.
Lull, R. S. 1904 A, 492, fig. 11.
1915 A, 191, fig. 46.
1917 D, 115.
1924 A, 268.
Lyman, B. S. 1894 A, 206 (Gigantitherium).
Triassic (Newark); Massachusetts.

Gigandipus sp. indet.
Thorpe, M. R. 1928 A, 39.
Triassic (Newark); Connecticut.

GRALLATOR E. Hitchcock. No type designated.

Hay, O. P. 1902 A, 545.
Abel, O. 1911 A, 158.
1912 F, 271.
1926 B, 36, 39.
Heilmann, G. 1926 A, 205.
Hitchcock, C. H. 1898 A, 401.
Lull, R. S. 1904 A, 494, 544.
1904 D, 144.
1905 C, 299.
1915 A, 200.
1917 D, 116.
Nopcsa, F. 1923 C, 464, fig. 2.
1923 H, 146, 147.

Grallator cuneatus E. Hitchcock.
Hay, O. P. 1902 A, 545.
Heilmann, G. 1913 B, 28, fig. 73.
Hitchcock and Grier 1927 A, 186, 187, 189.
Lull, R. S. 1904 A, 495, fig. 15.
1915 A, 202, fig. 56.
1917 D, 116.
Lyman, B. S. 1894 A, 205, 209, 210, 214.
Triassic (Newark); Connecticut, Massachusetts, New Jersey.

Grallator cursorius E. Hitchcock.
Hay, O. P. 1902 A, 545.
Heilmann, G. 1926 A, 180, fig. 130.
Lull, R. S. 1904 A, 494, fig. 12.
1912 D, 420.
1915 A, 168, 200, fig. 53.
1917 D, 116.
Lyman, B. S. 1894 A, 205, 210, 213.
Triassic (Newark); Connecticut, Massachusetts, New Jersey.

Grallator formosus E. Hitchcock.
Hay, O. P. 1902 A, 545.
Lull, R. S. 1904 A, 496, fig. 16.
1915 A, 205, fig. 57 (This genus?).
1917 D, 117.
Lyman, B. S. 1894 A, 206, 213, 214.
Triassic (Newark); Connecticut, Massachusetts, New Jersey.

Grallator gracilis C. H. Hitchcock.
Hay, O. P. 1902 A, 545.
Heilmann, G. 1926 A, 180, fig. 130.
Hitchcock and Grier 1927 A, 196.
Lull, R. S. 1904 A, 496, fig. 17.
1915 A, 202, fig. 55.
1917 D, 116.
Lyman, B. S. 1894 A, 205, 214.
Triassic (Newark); Connecticut, Massachusetts, New Jersey.

Grallator tenuis E. Hitchcock.
Hay, O. P. 1902 A, 545.
Heilmann, G. 1926 A, 180, fig. 130.
Lull, R. S. 1904 A, 495, fig. 14.
1915 A, 201, fig. 54.
1917 D, 116.
Lyman, B. S. 1894 A, 205, 209, 210.
Triassic (Newark); Massachusetts, Connecticut, New Jersey.

Grallator sp. indet.
Hitchcock and Grier 1927 A, 186, 188, 190, 195, 197. Triassic (Newark); Massachusetts.
Thorpe, M. R. 1928 A, 39.
Triassic (Newark); Connecticut.

HARPEDACTYLUS E. Hitchcock. Type *H. tenuissimus* E. Hitchcock.

Hay, O. P. 1902 A, 545.
Abel, O. 1926 B, 36.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 527.
1915 A, 245.
1917 D, 122.
Nopcsa, F. 1923 C, 464, fig. 1 (Herpedactylus).
1923 H, 145, 146.

Harpedactylus crassus E. Hitchcock.
Hay, O. P. 1902 A, 545.
Lull, R. S. 1904 A, 528.
1915 A, 246.
1917 D, 122.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Massachusetts.

Harpedactylus gracilior E. Hitchcock.
Hay, O. P. 1902 A, 545.
Lull, R. S. 1904 A, 528.
1915 A, 246, fig. 103.
1917 D, 122.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Massachusetts.

Harpedactylus tenuissimus E. Hitchcock.
Hay, O. P. 1902 A, 545.
Lull, R. S. 1904 A, 527.
1915 A, 245, fig. 102.
1917 D, 122.
Lyman, B. S. 1894 A, 205 (H. gracilis).
Triassic (Newark); Massachusetts, Connecticut.

HELCURA E. Hitchcock. Type *H. littoralis* E. Hitchcock.

Hay, O. P. 1902 A, 546.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 530.
1915 A, 249.
1917 D, 123.

Helcura anguinea E. Hitchcock.
Hay, O. P. 1902 A, 546.
Lull, R. S. 1904 A, 530.
1915 A, 249.
1917 D, 123.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

Helcura littoralis E. Hitchcock.
Hay, O. P. 1902 A, 546.
Hitchcock, C. H. 1898 A, 402 (H. caudata).
Lull, R. S. 1904 A, 531.
1915 A, 250.
1917 D, 123.
Triassic (Newark); Massachusetts.

Helcura surgens E. Hitchcock.
Hay, O. P. 1902 A, 546.
Lull, R. S. 1904 A, 531.
1915 A, 250.
1917 D, 124.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

HOPLICHNUS E. Hitchcock. Type *H. quadrupedans* E. Hitchcock.

Hay, O. P. 1902 A, 546.
Lull, R. S. 1904 A, 541.
A genus of doubtful validity.

Hoplichnus equus E. Hitchcock.
Hay, O. P. 1902 A, 546.
Lull, R. S. 1904 A, 541.
Lyman, B. S. 1894 A, 205, 211.
Triassic (Newark); Massachusetts.

Hoplichnus quadrupedans E. Hitchcock.
Hay, O. P. 1902 A, 546.
Lull, R. S. 1904 A, 541.
Lyman, B. S. 1894 A, 206 (H. poledrus).
Triassic (Newark); Massachusetts.

HYLOIDICHNUS Gilmore. Type *H. bifurcatus* Gilmore.

Gilmore, C. W. 1927 D, 51.
1928 A, 5.

Hyloidichnus bifurcatus Gilmore.
Gilmore, C. W. 1927 D, 52, pl. xvi; text-fig. 25.
Permian (Hermit); Arizona.

Hyloidichnus whitei Gilmore.
Gilmore, C. W. 1928 A, 5, pl. iii, fig. 1; text-fig. 3.
Permian (Hermit); Arizona.

HYLOPUS Dawson. Type *H. logani* Dawson.

Hay, O. P. 1902 A, 546.
Ami, H. M. 1899 A, 181.
Gilmore, C. W. 1927 D, 45, 46.
Lull, R. S. 1918 A, 343.
Matthew, G. F. 1903 A, 102.
1903 C, 101.
1903 D, 114.
1904 A, 82.
1904 B, 247.
Whiteaves, J. F. 1901 A, 180, 190.

Hylopus hardingi Dawson.
Hay, O. P. 1902 A, 546.
Barrell, J. 1915 B, 410.
Gilmore, C. W. 1927 D, 11, 45, text-figs. 22, 23.
Lambe, L. M. 1904 C, 18, 35, 46.
Lull, R. S. 1917 B, 491.
Matthew, G. F. 1903 D, 111, pl. i, figs. 3, 4.
1904 A, 82, pl. i, fig. 1; pl. vi, fig. 2.
1904 B, 247, fig. 5.
Nopcsa, F. 1923 H, 135.
Mississippian; Nova Scotia.

Hylopus hermitanus Gilmore.
Gilmore, C. W. 1927 D, 46, fig. 21 (P. 7, H. hermitus; p. 78, H. hermitensis, *errore*).
1928 A, 7.
1928 C, 8, fig. 8.
Permian (Hermit); Arizona.

Hylopus logani Dawson.
Hay, O. P. 1902 A, 546.
Gilmore, C. W. 1927 D, 11, 46.
Lambe, L. M. 1904 C, 18, 35, 46.
Matthew, G. F. 1903 D, 112, pl. i, figs. 3, 4.
1904 A, 82, 85, pl. vi, fig. 1.
1904 B, 247.
Moodie, R. L. 1908 E, 562.
Mississippian; Nova Scotia.

Hylopus minor Dawson.
Hay, O. P. 1902 A, 546.
Gilmore, C. W. 1927 D, 46.
Lambe, L. M. 1904 C, 36, 46.

Matthew, G. F. 1903 D, 112.
1904 A, 81 (This genus?).
1904 B, 252.
Mississippian; Nova Scotia.

Hylopus ? variabilis Matthew.

Matthew, G. F. 1910 A, 120, pl. ii, figs. 1-3.
Devonian (Little River); New Brunswick.

Hylopus sp. indet.

Hay, O. P. 1902 A, 546.

HYPHEPUS E. Hitchcock. Type *H. fieldi* E. Hitchcock.

Hay, O. P. 1902 A, 546.
Abel, O. 1912 F, 271.
1926 B, 36.
Lull, R. S. 1904 A, 493.
1915 A, 193.
1917 D, 115.
Nopcsa, F. 1923 C, 464.
1923 H, 146.

Hyphepus fieldi E. Hitchcock.

Hay, O. P. 1902 A, 546.
Hitchcock, C. H. 1898 A, 401.
Lull, R. S. 1904 A, 493.
1915 A, 193, fig. 47.
1917 D, 115.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

ICHTHYOIDICHNITES Ami. Type *I. acadiensis* Ami.

Ami, H. M. 1902 A, 330.
Sauvage, H. E. 1903 D, 228 (Ichthyoidinites).

Ichthyoidichnites acadiensis Ami.

Ami, H. M. 1902 A, 330, pl. ii.
1901 B, 309 (No description).
Twenhofel, W. H. 1913 A, 303.
Lower Devonian (Knoydart); Nova Scotia.

ISOCAMPE E. Hitchcock. Type *I. strata* E. Hitchcock.

Hay, O. P. 1902 A, 546.
Lull, R. S. 1904 A, 537.
1915 A, 259.
1917 D, 125.

Isocampe strata E. Hitchcock.

Hay, O. P. 1902 A, 546.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 537.
1915 A, 259, fig. 119.
1917 D, 125.
Lyman, B. S. 1894 A, 206 (I. strata); 205 (I. moodii. This species?).
Triassic (Newark); Massachusetts, Connecticut.

LAGUNCULAPES E. Hitchcock. Type *L. latus* E. Hitchcock.

Hay, O. P. 1902 A, 546 (Langunculapes, *errore*).
Lull, R. S. 1904 A, 525.
1915 A, 242.
1917 D, 122.

Lagunculapes latus E. Hitchcock.

Hay, O. P. 1902 A, 546 (Langunculapes, *errore*).
Abel, O. 1912 F, 272.
Hitchcock, C. H. 1898 A, 402 (Lagunculipes).
Lull, R. S. 1904 A, 525.
1915 A, 242, fig. 99.
1917 D, 122.
Triassic (Newark); Massachusetts.

LAOPORUS Lull. Type *L. schucherti* Lull.

Lull, R. S. 1918 A, 338.
Gilmore, C. W. 1926 A, 13.
1927 D, 17.
1928 A, 3.
Nopcsa, F. 1923 H, 141.
Thorpe, M. R. 1926 A, 7.

Laoporus coloradensis (Henderson).

Henderson, J. 1924 A, 228, figs. 1-3 (Limnopus?).
Gilmore, C. W. 1926 A, 16, 19, 36, pl. vii, figs. 1, 2; text-fig. 10 (L. coloradoensis).
Permian (Lyons); Colorado.

Laoporus noblei Lull.

Lull, R. S. 1918 A, 339, pl. ii; text-fig. 2.
Abel, O. 1926 B, 208, 211.
Gilmore, C. W. 1926 A, 13, pl. v, fig. 2; pl. vi; text-fig. 9 (L. nobeli).
1927 C, 47, fig. 53.
1927 D, 11, 18, pl. iv, fig. 2.
Schuchert, C. 1918 A, 350.
Permian (Coconino); Arizona.

Laoporus schucherti Lull.

Lull, R. S. 1918 A, 338, pl. i, fig. 1; text-fig. 1.
Abel, O. 1926 B, 206, 211, figs. 123, 124.
Gilmore, C. W. 1926 A, 17, 18.
1927 D, 11.
Schuchert, C. 1918 A, 350.
Permian (Coconino); Arizona.

LIMNOPUS Marsh. Type *L. vagus* Marsh.

Hay, O. P. 1902 A, 547.
Lull, R. S. 1918 A, 341.

Limnopus vagus Marsh.

Hay, O. P. 1902 A, 547.
Abel, O. 1912 F, 67, fig. 24.

Gilmore, C. W. 1926 A, 14, text-fig. 8.
Matthew, G. F. 1903 D, 112, pl. iii, fig. 2 (L. vagans).
Nopcsa, F. 1923 H, 135 (Limopus vagans).
Coal Measures; Kansas.

MEGAPEZIA Matthew. Type *M. pineoi* Matthew.

Matthew, G. F. 1903 C, 107.
Lull, R. S. 1918 A, 343.
Matthew, G. F. 1904 A, 102.

Megapezia pineoi Matthew.

Matthew, G. F. 1903 C, 108, pl. i, fig. 2.
Jaekel, O. 1909 B, 595, fig. 6.
Lambe, L. M. 1904 C, 35, 46.
Lull, R. S. 1918 A, 344.
Matthew, G. F. 1904 A, 103, pl. ii, fig. 4; pl. vi, fig. 6.
Coal Measures; Nova Scotia.

MICRICHNUS Abel. Type *M. scotti* Abel.

Abel, O. 1926 B, 32.

Micrichnus scotti Abel.

Abel, O. 1926 B, 32, 44, 52, 451, figs. 19-23.
1926 G, (146) (Micrichnium).
Triassic (Stockton); New Jersey.

NANOPUS Marsh. Type *N. caudatus* Marsh.

Hay, O. P. 1902 A, 547.
Gilmore, C. W. 1926 A, 9.
1927 D, 13.

Nanopus caudatus Marsh.

Hay, O. P. 1902 A, 547.
Gilmore, C. W. 1926 A, 11, text-fig. 6.
1927 D, 14.
Henderson, J. 1924 A, 229.
Matthew, G. F. 1903 D, 113, pl. iii, figs. 5, 5*a*.
Pennsylvanian; Kansas.

Nanopus maximus Gilmore.

Gilmore, C. W. 1927 D, 15, pl. iii; text-fig. 5.
Permian (Coconino); Arizona.

Nanopus merriami Gilmore.

Gilmore, C. W. 1926 A, 9, pl. iv, fig. 2; text-fig. 5.
1927 D, 11, 15, pl. iv, fig. 1.
Permian (Coconino); Arizona.

Nanopus ? vetustus Matthew.

Matthew, G. F. 1910 A, 121, pl. ii, figs. 4, 5.
Devonian (Little River); New Brunswick.

ONYCHOPUS Martin. Type *O. gigas* Martin.

Martin, H. T. 1922 B, 104.
Kukuk, P. 1926 A, 610.
Martin, H. T. 1922 C, 99 ("footprints").

Onychopus gigas Martin.

Martin, H. T. 1922 B, 104, pls. i-iii.
1922 C, 99 ("footprints").
Coal Measures (Weston shales); Kansas.

ORNITHOIDES Matthew. Type *Hylopus? trifidus* Dawson.

Matthew, G. F. 1903 C, 104.
Hay, O. P. 1902 A, 546 (Hylopus, in part).
Matthew, G. F. 1904 A, 96.

Ornithoides ? adamsi Matthew.

Matthew, G. F. 1904 A, 97, pl. iv, fig. 2 (This genus?).
Gilmore, C. W. 1927 D, 67, text-fig. 35 (This genus?).
Pennsylvanian; Nova Scotia.

Ornithoides trifidus (Dawson).

Hay, O. P. 1902 A, 546 (Hylopus?).
Gilmore, C. W. 1927 D, 46 (Hylopus. Referred to Ornithoides).
Lambe, L. M. 1904 C, 36, 46 [O. (Hylopus?)].
Matthew, G. F. 1903 C, 105, pl. i, fig. 6 (Hylopus?).
1903 D, 113, pl. ii, fig. 2 (Hylopus?).
1904 A, 96, pl. iv, fig. 1 (From Hylopus).
Coal Measures; Nova Scotia.

ORNITHOMIMIPUS Sternberg. Type *O. angustus* Sternberg.

Sternberg, C. M. 1926 C, 87.
Huene, F. 1927 G, 230 (Ornithomimus).
Sternberg, C. M. 1926 A, 104 (No description; no species).

Ornithomimipus angustus Sternberg.

Sternberg, C. M. 1926 C, 87, pl. xviii; text-fig. 4.
Huene, F. 1926 A, 230 (Ornithomimus).
Upper Cretaceous (Edmonton); Alberta.

ORTHODACTYLUS E. Hitchcock. Type *O. floriferus* E. Hitchcock.

Hay, O. P. 1902 A, 547.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 535.
1915 A, 256.
1917 D, 125.

Orthodactylus floriferus E. Hitchcock.

Hay, O. P. 1902 A, 547.
Hitchcock and Grier 1927 A, 194.
Lull, R. S. 1904 A, 535.
1915 A, 256, fig. 114.

Lull, R. S. 1917 D, 125.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

Orthodactylus introvergens E. Hitchcock.

Hay, O. P. 1902 A, 547.
Lull, R. S. 1904 A, 535.
1915 A, 256, fig. 115.
1917 D, 125.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

Orthodactylus linearis E. Hitchcock.

Hay, O. P. 1902 A, 547.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 536.
1915 A, 257, fig. 116.
1917 D, 125.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

OTOUPHEPUS Cushman. Type *O. magnificus* Cushman.

Cushman, J. A. 1904 A, 155.
Abel, O. 1926 B, 36.
Lull, R. S. 1915 A, 187.
1917 D, 114.
Nopcsa, F. 1923 H, 145 (Otophepus).

Otouphepus magnificus Cushman.

Cushman, J. A. 1904 A, 155, pl. vi.
1907 A, 274.
Lull, R. S. 1915 A, 190, fig. 44.
1917 D, 115.
Triassic (Newark); Massachusetts.

Otouphepus minor Lull.

Lull, R. S. 1915 A, 190, fig. 45.
1917 D, 115.
Triassic (Newark); Massachusetts.

OTOZOUM E. Hitchcock. Type *E. moodii* E. Hitchcock.

Hay, O. P. 1902 A, 547.
Abel, O. 1912 F, 70, 272, 275.
1926 B, 37.
1926 G, (149).
Gilmore, C. W. 1926 A, 29 (Otozorum).
Heilmann, G. 1926 A, 206.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 513, 514, 545.
1905 C, 299.
1910 A, 17.
1915 A, 222.
1917 D, 119.
Nopcsa, F. 1923 H, 144, pl. vi, fig. 13.
Nopcsa, F. 1923 H, 144.
Triassic (Newark); Massachusetts.

Otozoum caudatum C. H. Hitchcock.

Hay, O. P. 1902 A, 547.
Lull, R. S. 1904 A, 514.
Triassic (Newark); Connecticut.

Otozoum minus Lull.

Lull, R. S. 1915 A, 225, fig. 76.
1917 D, 119.

Otozoum moodii E. Hitchcock.

Hay, O. P. 1902 A, 547.
Abel, O. 1926 B, 38.
Heilmann, G. 1926 A, 159, figs. 113, 116.
Hitchcock and Grier 1927 A, 194.
Lull, R. S. 1904 A, 513, pl. lxxii, figs. e-g.
1915 A, 223, pl. xii; text-figs. 74, 75.
1917 D, 119.
Lyman, B. S. 1894 A, 205, 206, 210.
Rice and Gregory 1906 A, 175, fig. 5.
Triassic (Newark); Massachusetts, Connecticut.

Otozoum parvum C. H. Hitchcock.

Hay, O. P. 1902 A, 547.
Lull, R. S. 1904 A, 515 (This genus?).
Lyman, B. S. 1894 A, 214.
Triassic (Newark); New Jersey, Pennsylvania.

PALÆOPUS Gilmore. Type *P. regularis* Gilmore.

Gilmore, C. W. 1926 A, 25.

Palæopus regularis Gilmore.

Gilmore, C. W. 1926 A, 25, pl. v, fig. 1; text-fig. 17.
Abel, O. 1926 B, 208.
Gilmore, C. W. 1927 D, 4 (Paleopus).
Permian (Coconino); Arizona.

PALÆOSAUROPUS Hay. Type *Sauropus primævus* Lea.

Hay, O. P. 1902 A, 548.
Ami, H. M. 1899 A, 181.
Matthew, G. F. 1903 A, 102.
1903 C, 106.
1903 D, 109.
1904 A, 99.
Whiteaves, J. F. 1901 A, 181 (Sauropus).

Palæosauropus antiquior (Dawson).

Hay, O. P. 1902 A, 548.
Barrell, J. 1915 B, 410 (Sauropus).
Lambe, L. M. 1904 C, 18, 35, 46.
Coal Measures; Nova Scotia.

Palæosauropus primævus (Lea).

Hay, O. P. 1902 A, 548.
Amer. Jour. Sci. 1852 B, 451 (Sauropus).
Barrell, J. 1907 A, 460 (Sauropus).
1915 B, 410 (Sauropus).
Branson, E. B. 1910 A, 358 (Paleosauropus primevus).

Hickling, G. 1909 A, 30, pl. iv, fig. 31 (Sauropus).
Lacoe, R. D. 1882 A, 7 (Sauropus).
Lull, R. S. 1917 B, 491.
Matthew, G. F. 1903 D, 109, 112 (Sauropus).
1904 A, 93.
Roemer, F. 1856 B, 23 (Sauropus).
Coal Measures; Pennsylvania.

PALAMOPUS E. Hitchcock. Type *P. anomalus* E. Hitchcock.

Hay, O. P. 1902 A, 548.
Abel, O. 1926 B, 36.
Hitchcock, C. H. 1898 A, 402 (Macropterna).
Lull, R. S. 1904 A, 532.
1915 A, 252.
1917 D, 124.
Nopcsa, F. 1923 C, 464.
1923 H, 145, 146.

Palamopus anomalus E. Hitchcock.

Hay, O. P. 1902 A, 548.
Lull, R. S. 1904 A, 532.
Triassic (Newark); Massachusetts.

Palamopus divaricans (E. Hitchcock).

Hay, O. P. 1902 A, 548.
Cushman, J. A. 1907 A, 273 (Macropterna).
Lull, R. S. 1904 A, 532.
Lyman, B. S. 1894 A, 206 (Macropterna).
Triassic (Newark); Massachusetts.

Palamopus gracilipes (E. Hitchcock).

Hay, O. P. 1902 A, 548.
Cushman, J. A. 1907 A, 274 (Macropterna).
Hitchcock and Grier 1927 A, 195.
Lull, R. S. 1904 A, 533.
1915 A, 253, fig. 100.
1917 D, 124.
Lyman, B. S. 1894 A, 206 (Macropterna).
Triassic (Newark); Massachusetts.

Palamopus palmatus (E. Hitchcock).

Hay, O. P. 1902 A, 548 (Palamopus anomalus, part).
Lull, R. S. 1915 A, 252, fig. 109.
1917 D, 124.
Triassic (Newark); Massachusetts.

Palamopus rogersianus (E. Hitchcock).

Hay, O. P. 1902 A, 548.
Lull, R. S. 1904 A, 533.
1915 A, 253, fig. 111 (P. rogersi).
1917 D, 124 (P. rogersi).
Lyman, B. S. 1894 A, 206 (Macropterna vulgaris).
Triassic (Newark); Massachusetts, Connecticut.

PARABAROPUS Gilmore. Type *Megapezia? coloradensis* Lull.

Gilmore, C. W. 1927 D, 53.

Parabaropus coloradensis (Lull).

Lull, R. S. 1918 A, 341, pl. iii, fig. 2; text-fig. 3 (Megapezia?).
Abel, O. 1926 B, 213 (This genus?).
Gilmore, C. W. 1927 D, 54, pl. xvii, fig. 1; text-figs. 27, 28 (Parabaropus); 11, text-fig. 26 (Megapezia?).
1928 A, 7, pl. i.
1928 C, 8, fig. 8.
Schuchert, C. 1918 A, 354.
Permian (Hermit); Arizona.

PLATYPTERNA E. Hitchcock. Type *P. deaniana* E. Hitchcock.

Hay, O. P. 1902 A, 549.
Abel, O. 1912 F, 272.
1926 B, 36.
Hitchcock, C. H. 1898 A, 401.
Lull, R. S. 1904 A, 515.
1915 A, 227.
1917 D, 119.
Nopcsa, F. 1923 C, 464, fig. 3.
1923 H, 145, pl. vi, fig. 7.

Platypterna concamerata (E. Hitchcock).

Hay, O. P. 1902 A, 549.
Lull, R. S. 1904 A, 516.
1915 A, 227, fig. 79.
1917 D, 120.
Lyman, B. S. 1894 A, 205 (P. varica).
Triassic (Newark); Massachusetts.

Platypterna deaniana E. Hitchcock.

Hay, O. P. 1902 A, 549.
Hitchcock and Grier 1927 A, 192 (P. deanii).
Lull, R. S. 1904 A, 516.
1915 A, 227, fig. 78 (P. deanii).
1917 D, 119 (P. deanii).
Lyman, B. S. 1894 A, 209.
Triassic (Newark); Massachusetts, Connecticut.

Platypterna delicatula (E. Hitchcock).

Hay, O. P. 1902 A, 549.
Lull, R. S. 1904 A, 517.
1915 A, 229, fig. 82.
1917 D, 120.
Lyman, B. S. 1894 A, 209.
Triassic (Newark); Connecticut.

Platypterna digitigrada E. Hitchcock.

Hay, O. P. 1902 A, 549.
Lull, R. S. 1904 A, 516.
1915 A, 228, fig. 80.
1917 D, 120.
Lyman, B. S. 1894 A, 206.
Nopcsa, F. 1923 H, 145.
Triassic (Newark); Massachusetts.

Platypterna gracillima E. Hitchcock.

Hay, O. P. 1902 A, 549.
Lull, R. S. 1904 A, 517.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Massachusetts.

Platypterna recta E. Hitchcock.

Hay, O. P. 1902 A, 549.
Lull, R. S. 1904 A, 518.
1915 A, 230, fig. 83.
1917 D, 120.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Massachusetts.

Platypterna tenuis E. Hitchcock.

Hay, O. P. 1902 A, 549.
Lull, R. S. 1904 A, 517.
1915 A, 229, fig. 81.
1917 D, 120.
Lyman, B. S. 1894 A, 209.
Triassic (Newark); Connecticut.

PLECTROPTERNA E. Hitchcock. Type *Plectropus minitans* E. Hitchcock.

Hay, O. P. 1902 A, 549.
Abel, O. 1912 F, 272 (Tarsoplectrus).
1926 B, 36.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 519 (Tarsoplectrus; Type *P. angustus*).
1915 A, 232.
1917 D, 120.
Nopcsa, F. 1923 C, 464, fig. 1.
1923 H, 145, 146 (Plectopterna).

Plectropterna angusta E. Hitchcock.

Hay, O. P. 1902 A, 549.
Lull, R. S. 1904 A, 520 (Tarsoplectrus).
1915 A, 233, fig. 87.
1917 D, 120.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Massachusetts.

Plectropterna elegans E. Hitchcock.

Hay, O. P. 1902 A, 549.
Lull, R. S. 1904 A, 520 (Tarsoplectrus).
1915 A, 234, fig. 88.
1917 D, 120.
Lyman, B. S. 1894 A, 209.
Triassic (Newark); Connecticut.

Plectropterna gracilis E. Hitchcock.

Hay, O. P. 1902 A, 549.
Lyman, B. S. 1894 A, 206, 209.
Triassic (Newark); Massachusetts, Connecticut.

Plectropterna lineans E. Hitchcock.

Hay, O. P. 1902 A, 549.
Lull, R. S. 1915 A, 234, fig. 89.
1917 D, 120.
Lyman, B. S. 1894 A, 205, 209.
Triassic (Newark); Massachusetts, Connecticut.

Plectropterna minitans (E. Hitchcock).

Hay, O. P. 1902 A, 549.
Abel, O. 1926 B, 23, fig. 13.
Lull, R. S. 1915 A, 232, fig. 86.
1917 D, 120.
Lyman, B. S. 1894 A, 205, 209, 211.
Triassic (Newark); Massachusetts, Connecticut.

PLESIORNIS E. Hitchcock. Type *Plesiornis pilulatus* E. Hitchcock.

Hay, O. P. 1902 A, 550.
Abel, O. 1912 F, 272.
Hitchcock, C. H. 1898 A, 401.
Lull, R. S. 1904 A, 521.
1915 A, 236.
1917 D, 121.

Plesiornis giganteus C. H. Hitchcock.

Hay, O. P. 1902 A, 550.
Lull, R. S. 1904 A, 522.
Lyman, B. S. 1894 A, 209.
Triassic (Newark); Connecticut.

Plesiornis mirabilis E. Hitchcock.

Hay, O. P. 1902 A, 550.
Lull, R. S. 1904 A, 522.
Lyman, B. S. 1894 A, 205, 206.
Triassic (Newark); Massachusetts.

Plesiornis pilulatus E. Hitchcock.

Hay, O. P. 1902 A, 550.
Lull, R. S. 1904 A, 521.
1915 A, 236, fig. 91.
1917 D, 121.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

Plesiornis sp. indet.

Hitchcock and Grier 1927 A, 197.
Triassic (Newark); Connecticut.

POLEMARCHUS E. Hitchcock. Type *Sauroidichnites polemarchius* E. Hitchcock = *P. gigas* E. Hitchcock.

Hay, O. P. 1902 A, 550.
Abel, O. 1912 F, 272.
1926 B, 36.
Lull, R. S. 1904 A, 520.
1915 A, 235.
1917 D, 121.
Nopcsa, F. 1923 C, 464, fig. 3.

Polemarchus gigas E. Hitchcock.

Hay, O. P. 1902 A, 550.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 520.
1915 A, 235, fig. 90 (Sauroidichnites).
1917 D, 121 (P. polemarchius).
Lyman, B. S. 1894 A, 211, 214.
Triassic (Newark); Massachusetts.

Polemarchus ? sp. indet.

Mudge, B. F. 1874 A, 72.
Coal Measures; Kansas.

PSEUDOBRADYPUS Matthew. Type *Sauropus unguifer* Dawson.

Matthew, G. F. 1903 C, 109.
1903 D, 112.
1904 A, 77.

Pseudobradypus unguifer (Dawson).

Hay, O. P. 1902 A, 548 (Palæosauropus).
Matthew, G. F. 1903 C, 109 (Sauropus. Made type of *Pseudobradypus*).
1903 D, 110 (Sauropus).
1904 A, 80 (Sauropus).
Woodward, A. S. 1904 A, 145 (Sauropus).
Pennsylvanian; Nova Scotia.

SAUROPUS E. Hitchcock. Type *S. barratii* E. Hitchcock.

Hay, O. P. 1902 A, 550.
Abel, O. 1926 B, 36.
Heilmann, G. 1926 A, 207.
Hitchcock, C. H. 1898 A, 401 (Chimærichnus).
Lull, R. S. 1915 A, 216.
1917 D, 118.
Nopcsa, F. 1923 H, 145, 146.

Sauropus barratii E. Hitchcock.

Hay, O. P. 1902 A, 550.
Heilmann, G. 1926 A, 159, figs. 113, 116.
Lull, R. S. 1915 A, 217, figs. 69-71.
1917 D, 118 (S. barratti).
Lyman, B. S. 1894 A, 206, 209, 210 (Chimæra).
Triassic (Newark); Massachusetts.

Sauropus ingens (C. H. Hitchcock).

Hay, O. P. 1902 A, 550.
Lyman, B. S. 1894 A, 214 (Chimærichnus).
Triassic (Newark); New Jersey.

SELENICHNUS E. Hitchcock. Type *S. falcatus* E. Hitchcock.

Hay, O. P. 1902 A, 551.
Abel, O. 1912 F, 271.
1926 B, 22, fig. 12.
Lull, R. S. 1904 A, 498.
1915 A, 206.
1917 D, 117.

Selenichnus breviusculus E. Hitchcock.

Hay, O. P. 1902 A, 551.
Lull, R. S. 1904 A, 499.
1915 A, 207, fig. 60.
Lull, R. S. 1917 D, 117.
Triassic (Newark); Massachusetts.

Selenichnus falcatus E. Hitchcock.

Hay, O. P. 1902 A, 551.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 498.
1915 A, 206, fig. 59.
1917 D, 117.
Triassic (Newark); Massachusetts.

SHEPARDIA E. Hitchcock. Type *S. palmipes* E. Hitchcock.

Hay, O. P. 1902 A, 551.
Abel, O. 1926 B, 37.
Lull, R. S. 1904 A, 538.
1915 A, 259.
1917 D, 125.
Nopcsa, F. 1923 H, 142 (Sheppardia).

Shepardia palmipes E. Hitchcock.

Hay, O. P. 1902 A, 551.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 538.
1915 A, 260, fig. 120.
1917 D, 126.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

Shepardia sp. indet.

Thorpe, M. R. 1928 A, 39.
Triassic (Newark); Connecticut.

SILLIMANIUS E. Hitchcock. Type *S. tetradactylus* E. Hitchcock.

Hay, O. P. 1902 A, 551.
Abel, O. 1912 F, 272.
Hitchcock, C. H. 1898 A, 401 (Ornithopus).
Lull, R. S. 1904 A, 522.
1915 A, 236.
1917 D, 121.
Reichenbach, L. 1852 A, xvi (Pelarganax. Type *Ornithichnites tetradactylus*).

Sillimanius gracilior E. Hitchcock.

Hay, O. P. 1902 A, 551.
Hitchcock and Grier 1927 A, 194.
Lull, R. S. 1904 A, 523.
1915 A, 237, fig. 93.
Lull, R. S. 1917 D, 121.
Lyman, B. S. 1894 A, 209 (Ornithopus).
Triassic (Newark); Connecticut, Massachusetts.

Sillimanius tetradactylus E. Hitchcock.

Hay, O. P. 1902 A, 551.
Lull, R. S. 1904 A, 522.
1915 A, 237, fig. 92.
1917 D, 121.
Lyman, B. S. 1894 A, 209, 211 (Ornithopus gallinaceus).
Triassic (Newark); Massachusetts, Connecticut.

STENICHNUS Gilmore. Type *S. yakiensis* Gilmore.

Gilmore, C. W. 1927 D, 65.

Stenichnus yakiensis Gilmore.

Gilmore, C. W. 1927 D, 11, 66, pl. xix, fig. 2; text-fig. 34
Permian (Supai); Arizona.

Stenonyx Lull. Type *Leptonyx lateralis* E. Hitchcock.

Lull, R. S. 1904 A, 498 (To replace *Leptonyx* Hitchcock, preoccupied).
Hay, O. P. 1902 A, 547 (Leptonyx).
Abel, O. 1912 F, 271.
Lull, R. S. 1915 A, 205.
1917 D, 117.

Stenonyx lateralis (E. Hitchcock).

Hay, O. P. 1902 A, 547 (Leptonyx).
Hitchcock, C. H. 1898 A, 401 (Leptonyx).
Hitchcock and Grier 1927 A, 194.
Lull, R. S. 1904 A, 498.
1915 A, 205, fig. 58.
1917 D, 117.
Lyman, B. S. 1894 A, 205 (Leptonyx).
Triassic (Newark); Massachusetts.

Steropoides E. Hitchcock. Type *E. elegans* E. Hitchcock. Type chosen by Lull.

Hay, O. P. 1902 A, 551.
Abel, O. 1912 F, 272.
Hitchcock, C. H. 1898 A, 401 (Tridentipes).
Lull, R. S. 1904 A, 523.
1915 A, 238.
1917 D, 121.
Reichenbach, L. 1852 A, xvi (Pelargides; type *Ornithichnites danæ* Hitchcock).

Steropoides elegans E. Hitchcock.

Hay, O. P. 1902 A, 551.
Hitchcock and Grier 1927 A, 194 (S. diversus).
Lull, R. S. 1904 A, 523.
1915 A, 238, pl. i; text-fig. 94 (S. diversus).
1917 D, 121 (S. diversus).
Lyman, B. S. 1894 A, 210, 211 (Tridentipes).
Triassic (Newark); Massachusetts.

Steropoides infelix Hay.

Hay, O. P. 1902 A, 552.
Lull, R. S. 1904 A, 524.
1915 A, 240.
1917 D, 121.
Triassic (Newark); Massachusetts, Connecticut.

Steropoides ingens E. Hitchcock.

Hay, O. P. 1902 A, 552.
Lull, R. S. 1904 A, 524.
1915 A, 239, fig. 95.
1917 D, 121.
Lyman, B. S. 1894 A, 205, 210, 211, 213 (Tridentipes).
Reichenbach, L. 1853 A, xvi (Pelargides danæ).
Triassic (Newark); Massachusetts, New Jersey.

Steropoides loripes (E. Hitchcock).

Hay, O. P. 1902 A, 552.
Lull, R. S. 1904 A, 525.
1915 A, 240, fig. 97 (S. divaricatus).
1917 D, 121 (S. divaricatus).
Lyman, B. S. 1894 A, 209, 210, 211 (Tridentipes insignis).
Triassic (Newark); Massachusetts.

Steropoides uncus (E. Hitchcock).

Hay, O. P. 1902 A, 552.
Lull, R. S. 1904 A, 525.
1915 A, 242, fig. 98.
1917 D, 122.
Lyman, B. S. 1894 A, 206 (Tridentipes).
Triassic (Newark); Massachusetts.

Sustenodactylus Lull. Type *Stenodactylus curvatus* E. Hitchcock.

Lull, R. S. 1904 A, 537.
Hay, O. P. 1902 A, 551 (Stenodactylus, preoccupied).
Lull, R. S. 1915 A, 258.
1917 D, 125.

Sustenodactylus curvatus (E. Hitchcock).

Hay, O. P. 1902 A, 551 (Stenodactylus).
Hitchcock, C. H. 1898 A, 402 (Stenodactylus).
Lull, R. S. 1904 A, 537.
1915 A, 258, fig. 118.
1917 D, 125.
Lyman, B. S. 1894 A, 206 (Stenodactylus).
Triassic (Newark); Massachusetts.

Tarsodactylus E. Hitchcock. Type *T. caudatus* E. Hitchcock.

Hay, O. P. 1902 A, 552.
Hitchcock, C. H. 1898 A, 401.
Lull, R. S. 1904 A, 526.
1915 A, 243.
1917 D, 122.
Nopcsa, F. 1923 H, 144.

Tarsodactylus caudatus E. Hitchcock.

Hay, O. P. 1902 A, 552.
Lull, R. S. 1904 A, 527.
1915 A, 244, fig. 101.
1917 D, 122.
Lyman, B. S. 1894 A, 206.
Triassic (Newark); Massachusetts.

Tarsodactylus expansus C. H. Hitchcock.

Hay, O. P. 1902 A, 552.
Hitchcock and Grier 1927 A, 195.
Lull, R. S. 1904 A, 527.
1915 A, 244.
1917 D, 122.
Triassic (Newark); Massachusetts.

THENAROPUS King. Type *T. leptodactylus* King.

Hay, O. P. 1902 A, 552.
Matthew, G. F. 1903 B, 103 (Theranopus. This genus?).
1903 D, 114.
1904 A, 99.

Thenaropus leptodactylus King.

Hay, O. P. 1902 A, 552.
Coal Measures; Pennsylvania.

Thenaropus macnaughtoni (Matthew).

Matthew, G. F. 1903 B, 103, pl. ii, fig. 1 (Theranopus. This genus?).
Lambe, L. M. 1904 C, 36, 46 (This genus?).
Matthew, G. F. 1903 D, 112 (This genus?).
Carboniferous; Nova Scotia.

Thenaropus ovoidactylus King.

Hay, O. P. 1902 A, 552.
Coal Measures; Pennsylvania.

Thenaropus pachydactylus King.

Hay, O. P. 1902 A, 552.
Coal Measures; Pennsylvania.

Thenaropus sphærodactylus King.

Hay, O. P. 1902 A, 552.
Matthew, G. F. 1903 D, 115 (Sphæropezium thærodactylum).
Coal Measures; Pennsylvania.

THINOPUS Marsh. Type *T. antiquus* Marsh.

Hay, O. P. 1902 A, 552.
Osborn, H. F. 1917 B, 175.

Thinopus antiquus Marsh.

Hay, O. P. 1902 A, 552.
Abel, O. 1914 C, 365.
Barrell, J. 1915 B, 409.
Boulenger, G. A. 1902 F, 382 (Tinopus).
Dames, W. 1898 D, 149.
Gregory, W. K. 1915 D, 368.
1922 A, 506, 509.
Lull, R. S. 1917 B, 488, 490, fig. 142.
1918 C, 123, pl. iii.
Moodie, R. L. 1913 B, 32.
1915 F, 190.
1915 H, 639.
1916 A, 37, pl. xviii, fig. 4; text-fig. 12.
Morton, D. J. 1926 A, 409, 6 figs.
Osborn, H. F. 1916 E, 610.
Zittel and Broili 1911 A, 173.
1923 A, 197.
Devonian; Pennsylvania.

TOXICHNUS E. Hitchcock. Type *T. inæqualis* E. Hitchcock.

Hay, O. P. 1902 A, 553.
Lull, R. S. 1904 A, 541.
1915 A, 262.
1917 D, 126.
A genus of doubtful validity.

Toxichnus inæqualis E. Hitchcock.

Hay, O. P. 1902 A, 553.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 542.
1915 A, 263, fig. 124.
1917 D, 126.
Triassic (Newark); Massachusetts.

TRIÆNOPUS E. Hitchcock. Type *T. baileyanus* E. Hitchcock.

Hay, O. P. 1902 A, 553.
Lull, R. S. 1904 A, 539.
1915 A, 261.
1917 D, 126.

Triænopus baileyanus E. Hitchcock.

Hay, O. P. 1902 A, 553.
Hitchcock, C. H. 1898 A, 402 (T. leptodactylus).
Hitchcock and Grier 1927 A, 195 (T. baileyi).
Lull, R. S. 1904 A, 539.
1915 A, 262, fig. 123 (T. baileyi).
1917 D, 126 (T. baileyi).
Lyman, B. S. 1894 A, 210 (Brontozoum leptodactylus).
Triassic (Newark); Connecticut.

Triænopus sp. indet.

Thorpe, M. R. 1928 A, 39.
Triassic (Newark); Connecticut.

TRIDENTICHNUS Gilmore. Type *T. supaiensis* Gilmore.

Gilmore, C. W. 1927 D, 70.

Tridentichnus supaiensis Gilmore.

Gilmore, C. W. 1927 D, 11, 70, pl. xxi; text-fig. 37.
Permian (Supai); Arizona.

Tridentichnus sp. indet.

Gilmore, C. W. 1927 D, 72, pl. ii, fig. 2 (This genus?). Permian (Supai); Arizona.

TRIHAMUS E. Hitchcock. Type *T. elegans* E. Hitchcock.

Hay, O. P. 1902 A, 553.
Hitchcock, C. H. 1898 A, 401.
Lull, R. S. 1904 A, 542.
A genus of doubtful validity.

Trihamus elegans E. Hitchcock.

Hay, O. P. 1902 A, 553.
Lull, R. S. 1904 A, 542.
Lyman, B. S. 1894 A, 205, 209.
Triassic (Newark); Massachusetts.

Trihamus magnus C. H. Hitchcock.
Hay, O. P. 1902 A, 553.
Lull, R. S. 1904 A, 542.
Lyman, B. S. 1894 A, 210.
Triassic (Newark); Connecticut.

TYPOPUS E. Hitchcock. Type *T. abnormis* E. Hitchcock.

Hay, O. P. 1902 A, 553.
Hitchcock, C. H. 1898 A, 402.
Lull, R. S. 1904 A, 542.
A genus of doubtful validity.

Typopus abnormis E. Hitchcock.
Hay, O. P. 1902 A, 553.
Lull, R. S. 1904 A, 543.
Lyman, B. S. 1894 A, 205, 210.
Triassic (Newark); Massachusetts, Connecticut?

Typopus gracilis E. Hitchcock.
Hay, O. P. 1902 A, 553.
Lull, R. S. 1904 A, 543.
Lyman, B. S. 1894 A, 209.
Triassic (Newark); Connecticut.

XIPHOPEZA E. Hitchcock. Type *X. triplex* E. Hitchcock.

Hay, O. P. 1902 A, 553.
Lull, R. S. 1904 A, 526.
1915 A, 243.

Xiphopeza triplex Hitchcock.
Hay, O. P. 1902 A, 553.
Hitchcock, C. H. 1904 A, 526.
1915 A, 243, fig. 100.
Lyman, B. S. 1894 A, 205.
Triassic (Newark); Massachusetts.

Class REPTILIA Laurenti.

Laurenti, J. N. 1768, Syn. Rept., 19.
Hay, O. P. 1902 A, 425.
Abel, O. 1909 F, 454 (“reptilien”).
1910 B (185), (“reptilien”).
1912 E, 223 (“reptilien”).
1912 F, 292, 300, 356, 697.
1914 C, 341 (“reptilien”).
1919 A, 333.
1920 A, 355.
1921 A, 143, 252, 265 (“reptilien”).
Adams, L. A. 1919 A, 88, 138.
Adloff, P. 1903 A, 359 (“reptilien”).
1904 B, 54 (“reptiles”).
1907 A, 530 (“reptilien”).
1910 B, 241 (“reptiles”).
1913 B, 191 (“reptilien”).
1913 C, 22 (“reptilien”).
1915 A, 436 (“reptilien”).
1918 A, 129 (“reptilien”).
Agar, W. E. 1909 A, 379.
Agassiz, L. 1836 B, 24 (“reptiles”).
1844 C, 253 (“reptiles”).
1845 B, 299 (“reptiles”).
Ahrens, H. 1912 B, 46 (“reptilien”).
Aichel, O. 1917 A, 109 (“reptilien”).
1919 A, 244 (“reptilien”).
Alexander, G. 1904 A (“reptilien”).
Allis, E. P. 1918 A, 244.
1919 B, 80.
1919 D, 209.
Altmann, F. 1925 A, 87, 94 (“reptilien”).
Anderson, R. J. 1902 C, 785 (“reptiles”).
Anonymous 1912 A, 519.
Anthony, R. 1912 A (“reptiles”).
1913 A, 243 (“reptiles”).
Arldt, T. 1907 C, 677 (“reptilien”).
1907 D, 678.
1907 E, 205 (“reptilien”).
1908 A, 569, 585.
1909 B, 354 (“reptilien”).
Arthaber, G. 1910 A, 552 (“reptilien”).
Baird, S. F. 1876 A, 357 (“reptiles”).
Baraldi, G. 1877 A, *passim* (“rettili”).
Bardeleben, K. 1889 A, 107 (“reptilien”).
1896 A, 114 (“reptilien”).
1901 A (“reptilien”).
1904 A, 109 (“reptilien”).
1905 A, 16 (“reptilien”).
1905 C, 156 (“reptilien”).
1906 A, 140 (“reptilien”).
1907 A, 35 (“reptilien”).
Bardenfleth, K. S. 1913 A, 69 (“reptiles”)
Barrell, J. 1907 A, 474 (“reptiles”).
Batelli, A. 1880 A, 346 (“reptilien”).
Baur, G. 1886 O, 174.
1887 H, 47 (“sauropsiden”).
1890 F, 156.
1894 B, 354.
1896 E, 569 (“reptilien”).
1897 D, 47.
1897 E.
Beecker, A. 1903 A, 577 (“reptilien”).
Beede, J. W. 1922 A, 680.
Beer, G. R. 1926 A, 312.
Bender, O. 1907 A, 40 (“reptilien”).
1910 A, 122 (“reptilien”).
1912 A, 3 (“reptilien”).
Beyer, H. 1907 A, 265, 281 (“reptilien”).
1908 B (“reptilien”).
Bittner, F. 1912 A, 1 (“reptilien”).
Blainville, H. M. D. 1835 A, 238.
1877 A, 107 (“reptiles”).
Blanchard, E. 1861 A, 375 (“reptiles”).
Blendinger, W. 1904 A, 453 (“sauropsiden”).
Bluntschli, H. 1912 B, 385 (“reptilien”).
Boas, J. E. V. 1914 B, 548, 555 (“reptilien”).
Böker, H. 1927 A, 23, 52, fig. 15 (“urreptilien”).
Bogoljubsky, S. 1914 A, 659.
Bolk, L. 1912 A, 58 (“reptilien”).
1912 B, 950 (“reptiles”).
1913 A (“reptilien”).
1914 A (“reptilien”).

Bolk, L. 1915 A, 103 ("reptilien").
1916 A, 715.
1921 A, 346 ("reptilien").
1921 C, 219 ("reptiles").
1922 A, 107 ("reptiles").
1922 B, 55.
1923 B, 376.
Bonaparte, C. L. 1832 A, 312.
1833 B, 1183.
Boulenger, G. A. 1891 D, 113.
1917 C, 456 ("reptiles").
1917 D, 1045 ("reptiles").
Branca, W. 1915 A, 6 ("reptilien").
Brandt, J. F. 1865 A, 2, 18.
Brauer, A. 1908 A, 88 ("saurier").
1914 A ("reptilien").
Brauns, D. 1890 A.
Braus, H. 1906 A ("reptilien").
Broili, F. 1904 D, 577.
1908 A, 6 ("reptilien").
Bronn, H. G. 1838 A, 1333.
1849 A, 780, seq.
Broom, R. 1890 A, 410.
1899 A, 749 ("reptiles").
1902 B, 168 ("reptile").
1903 I, 545.
1904 B, 94 ("reptiles").
1905 B, 213 ("reptiles").
1905 C, 269.
1905 D, 259.
1905 F, 40 ("reptiles").
1906 F, 373 ("reptiles").
1908 A, 1047 ("reptiles").
1908 E, 114 ("reptiles").
1909 B, 162.
1910 C, 473 ("reptiles").
1911 A, 919 ("reptiles").
1912 A, 625.
1912 B, 419 ("reptiles").
1921 A, 143 ("reptiles").
1922 A, 17.
1922 B, 455.
1924 B, 39.
1926 A, 257 ("reptiles").
Brown, A. E. 1904 A, 464.
Bruni, A. C. 1910 A, 750 ("rettili").
Burckhardt, R. 1903 A, 78 ("reptilien").
1906 A, 159 ("sauropsiden").
Carter, J. T. 1905 A, 136.
Cartier, O. 1874 A, 192 ("reptilien").
1875 A, 74 ("reptilien").
Carus and Engelmann 1861 A, 1052-1065, 1673, 1703.
Case, E. C. 1905 E, 180 ("reptiles").
1912 A, 200.
1915 A, 97.
1923 A, 517.
1924 B, 6.
Chaine, J. 1918 A, 734 ("reptiles").
Cleland, J. 1863 A, 118 ("reptiles").
1863 B, 308 ("reptiles").
1887 A, 391.
Cope, E. D. 1885 BB, 67.
1885 EE, 614.
1891 N, 7, 33 (Monocondylia, Reptilia).
Corning, H. K. 1891 A, 611 ("reptilien").
Cunningham, J. T. 1897 A, 486 (Sauropsida).
Cutler, I. E. 1924 A, 144 ("reptiles").
Cuvier, G. 1805 A (Amphibia).
1812 A, 123 ("reptiles").
1815 A, 103 ("reptiles").
1825 A, v, 2, 1-383, pls. i-xxiii.
Dabelow, A. 1926 A, 95 ("sauropsiden").
Dana, J. D. 1863 A, 1 ("reptiles").
1863 B, 315 ("reptiles").
1863 C, 334 ("reptiles").
1863 D, 130 ("reptiles").
Day, H. 1915 A, 427.
Delsman, H. C. 1913 A, 659 ("reptilien").
Dendy, A. 1907 A, 298.
Deninger, K. 1914 A, 186-214 ("reptilien").
1915 A, 183-186 ("reptilien").
Dependorf, T. 1907 A, 542 ("reptilien").
Diener, C. 1909 A, 32 ("reptilien").
Diethelm, M. 1907 A, 3 ("reptilien").
Döderlein, L. 1902 A, 399 ("reptilien").
Dollo, L. 1883 G, 582.
1884 E, 66 (Sauropsida, in part).
1889 E, 146 ("reptiles").
1893 D, 2 ("reptiles").
1893 F, 165 ("reptiles").
Dombrowski, B. A. 1925 A, 69 ("reptilien").
Drüner, L. 1904 A, 266 ("reptilien").
DuToit, P. J. 1911 A, 417 ("reptilien").
1913 A, 230 ("reptilien").
Eastman, C. R. 1913 B, 678 ("reptiles").
1914 B, 688 ("reptiles").
1915 C, 658.
1916 A, 655 ("reptiles").
1917 B, 655 ("reptiles").
Edgeworth, F. H. 1907 A, 530, 571 (Sauropsida).
Eggeling, H. 1906 A, 102 ("reptilien").
Eimer, G. H. T. 1901 A, 261 ("reptilien").
Eisler, P. 1895 A ("reptilien").
Emery, C. 1897 D, 601 ("reptilien").
Fernandez, M. 1921 A, 506 ("reptilien").
Filhol, H. 1889 A, 224 ("reptiles").
Fischer, E. 1903 A, 387 ("reptilien").
1905 B, 400 ("reptiles").
Fleishmann, A. 1910 A, 681.
Foote, J. S. 1913 A ("reptiles").
1916 A, 19 ("reptiles").
Forster, A. 1905 A, 89-138.
Fraas, E. 1905 B, 347 ("reptilien").
1911 B, 28 ("reptilien").
Frassetto, F. 1915 A ("rettili").
Frech, F. 1906 A, 491 ("reptilien").
Freund, L. 1902 A, 66.
Froriep, A. 1905 A, 156 ("reptiles").
1905 B, 111 (Lacerta, Anguis).
Fuchs, H. 1906 A, 8 ("reptilien").
1907 A, 149 ("reptilien").
1907 C, 8, 19 ("reptilien").
1908 A, 352 ("sauropsiden").
1908 C, 154 ("reptilien").
1909 C, 98 ("reptilien").
1909 D, 61, 66 ("reptilien").
1910 A, 35 ("reptilien").
1910 C, 476 ("reptilien").
1911 A, 34 ("reptilien").
1911 B ("reptilien").
1912 B, 82 ("reptilien").
1914 A, 28 ("reptilien").
1920 A, 357 ("reptilien").

Fuchs, H. 1926 B, 2 ("reptilien").
Fürbringer, M. 1900 A.
1902 B, 608 ("reptilien").
1904 A ("reptilien").
Gadow, H. 1896 A, 20.
1901 A, 396.
1901 B, 277.
1902 B, 347.
1912 B, 216 ("reptiles").
1914 A, 508 ("reptiles").
Garbowski, T. 1895 A, 448 ("reptilien").
Gaskell, W. H. 1898 A, 553.
Gaupp, E. 1895 A, 57, seq. ("reptilien").
1898 B, 848 ("reptilien").
1899 A, 1004 ("reptilien").
1900 A, 568 ("reptilien").
1901 B, 974 ("reptilien").
1902 A, 178, 215 ("reptilien").
1905 A, 277 ("reptilien").
1905 C, 128 ("reptilien").
1905 D, 1008 ("reptilien").
1905 E, 159, 160 ("reptilien").
1906 B ("reptilien").
1908 A, 182 ("reptilien").
1908 C ("reptilien").
1910 A, 535 ("reptilien").
1910 B, 355 ("reptilien").
1910 C, 318, 403 ("reptilien").
1910 D, 86 ("reptilien").
1911 B, 98 ("reptilien").
1911 D, 620 ("reptilien").
1912 A, 563 ("reptilien").
1912 B, 218 ("reptilien").
1913 A ("reptilien").
Gegenbaur, C. 1862 B, pls.
1863 A, 465 ("reptilien").
1866 A, 122 ("reptilien").
1867 A, 57 ("reptilien").
1867 B, 369, 395 ("reptilien").
1870 C, 397 ("reptilien").
1871 A, 157 ("reptilien").
1880 A, 586 ("reptilien").
Gelderen, C. 1922 A, 221 ("reptiles").
1923 A, 15 ("reptiles").
Geoffroy St. Hilaire, E. F. 1817 A, 126 ("reptiles").
1817 B, 186 ("reptiles").
1825 B, 124 ("reptiles").
1832 A, 349 ("reptiles").
Gervais, P. 1852 A, 241 ("reptiles").
1853 B, 35 ("reptiles").
1859 A, 129 ("reptiles").
Gessner, I. 1921 A, 271 ("reptilien").
Giebel, C. G. 1855 A, 86 (Sauria).
Gill, T. 1873 E, 435.
1898 A, 696 ("reptiles").
1898 B, 697 ("reptiles").
1910 B, 959.
Goodrich, E. S. 1916 A, 261.
Goodsir, J. 1857 A ("reptiles").
1857 B ("reptiles").
Gray, J. E. 1825 A, 194.
1837 C, 131.
Greene, J. R. 1861 A, 218, 225.
Gregory, W. K. 1911 C, 404 ("reptiles").
1913 B, 241 ("reptiles").
1913 E, 13 ("reptiles").
Gregory, W. K. 1916 D, 105 ("reptiles").
1917 C, 974 ("reptiles").
1922 A, 545.
1926 B, 425 ("reptiles").
1927 C, 170 ("reptiles").
1927 G, 268 ("reptiles").
Gregory and Adams 1915 A, 763.
Gregory and Camp 1918 A.
Gregory and Noble 1924 A, 436 ("reptiles").
Haeckel, E. 1868 A, 436, 455.
1873 A, 531 ("reptilien").
Haller, G. 1924 A, 305 ("reptilien").
Hanson, F. B. 1919 B, 70.
1920 A, 310.
Hase, A. 1913 A ("reptilien").
Hasse and Schwarck 1870 A, 40 ("reptilien").
Haughton, S. H. 1920 A.
Hay, O. P. 1910 C, 3.
Hayek, H. 1924 A, 137, 154 ("reptilien").
Heilprin, A. 1887 A, 429.
1901 A, 21473 ("reptiles").
Hertwig, O. 1892 A.
Hertz, M. 1925 A ("reptilien").
Hilzheimer, M. 1913 A, 473, 512 ("reptilien").
Hoernes, R. 1886 A, 582.
1912 A, 660 ("reptilien").
Hoeven, J. v. d. 1866 A, 363 (Pholidota).
Hollard, H. 1864 C, 360 ("reptiles").
Hommes, J. H. 1924 A, 39 ("reptiles").
Howes, G. B. 1891 A, 153 ("reptiles").
1893 C, 587.
1894 A, 77.
1902 A, 524 ("reptiles").
Howes and Swinnerton 1901 A.
Hubrecht, A. A. W. 1897 A, 29.
1908 A, 153.
Huene, F. 1902 A ("reptilien").
1906 C, 336 ("reptilien").
1907 A, 152-154 ("reptilien").
1908 F, 401 ("reptilien").
1908 H, 157-175 ("reptilien").
1910 F, 148-163 ("sauropsiden").
1911 G, 147-161 ("sauropsiden").
1912 E, 472 ("reptilien").
1912 F, 522 ("reptilien").
1925 D, 229 ("reptilien").
1926 A, 262 ("reptilien").
1927 E, 319 ("reptilien").
Huxley, T. H. 1855 A, 82.
1859 D, 401, 447.
1862 A, xlviii.
1863 E, 443.
1863 F, 475.
1867 C, 240.
1868 D, 303 ("reptiles").
1869 J, 91 ("reptiles").
1869 K, 146.
1870 F, 528.
1870 G, 481.
1870 H, 492.
1875 E, 70.
1881 A, 454 ("reptiles").
Ihering, H. 1880 A, 307 ("reptilien").
Iwanzoff, N. 1894 A, 578 ("reptilien").
Jaeger, J. F. 1842 A, 441 ("reptilien").
Jaekel, O. 1901 B, 53 ("reptilien").
1902 C, 610 ("reptilien").

Jaekel, O. 1902 D, 127 ("reptilien").
1902 E, 1115 ("reptilien").
1904 A, 30 ("reptilien").
1905 B, 60 ("reptilien").
1905 C, 134 ("reptilien").
1906 A, 28 ("reptilien").
1906 D, 188.
1908 A, 140 ("reptilien").
1909 A, 193, 211.
1909 B, 604.
1910 C, 324 ("reptilien").
1910 D, 123.
1911 A, 131.
1912 A, 610 ("reptilien").
1913 A, 88 ("reptilien").
1913 B, 194 ("reptilien").
Johnson, A. 1883 A, 404 ("reptiles").
Jordan, D. S. 1898 A, 176.
1922 C, 177 ("reptiles").
Juhn, M. 1923 A, 70 ("reptilien").
Julien, A. 1894 A, 174 ("reptiles").
Kampfen, P. N. van 1922 A, 57 ("reptilien").
Kehrer, F. A. 1896 A, 347 ("reptilien").
Keith, A. 1911 A, 294 ("reptilia").
Kerbert, C. 1876 A, 205 ("reptilien").
Kerr, J. G. 1923 A, 114.
Kesteven, H. L. 1916 A, 303.
1918 A, 449, 450 ("reptiles").
Keyes, C. A. 1922 A, pl. iii.
Kingsley, J. S. 1900 A, 248.
1900 B, 167 ("reptiles").
1901 A, 194 ("reptiles").
1905 A, 59.
1912 A, 185 ("reptiles").
1912 B, 87 ("reptiles").
1925 A, 14, 42, 54, 55, 136, 248, 263, 280.
Kjellberg, K. 1904 A, 159 ("sauropsiden," in part).
Klaatsch, A. 1893 B, 651 ("sauropsiden," in part).
1913 A, 162 ("reptilien").
Köstlin, O. 1844 A, 224 ("reptilien").
Koken, E. 1893 B, 645 ("reptilien").
1898 B, 142.
1901 B, 221 ("reptilien").
Kravetz, L. P. 1906 A, 6 ("reptilien").
Laaser, P. 1903 A, 571 ("reptilien").
Laloy, L. 1907 A, 584 ("reptiles").
Larger, R. 1913 A, 702 ("reptiles").
Lavocat, A. 1883 A, 1316 ("reptiles").
1884 A, 1126 ("reptiles").
1885 A, 28, 34 ("reptiles").
Lebedinsky, N. G. 1913 A, 767 ("reptilien").
Leche, W. 1887 A ("reptilien").
1915 B, 527 ("reptilien").
LeDamany, P. 1903 A, 273 ("reptiles").
1903 B, 275 ("reptiles").
1903 D, 353 ("reptiles").
1903 G, 127 ("reptiles").
1906 A, 58 ("reptiles").
1906 B, 155 ("reptiles").
Ledouble, A. F. 1903 A, 645 ("reptiles").
1906 A, 589 ("reptiles").
Lemoine, V. 1889 A, 233 ("reptiles").
Leunis and Ludwig 1883 A, 519.
Leydig, F. 1873 B, 32 ("reptilien").
1890 A, 441, 453 ("reptilien").
Lindsay, B. 1885 A, 684 ("reptiles").
Lobley, J. L. 1908 A, 198.
Lorenz, L. E. F. 1807 A.
Lubosch, W. 1907 A, 614 ("reptilien").
1908 A, 203 ("reptilien").
1911 A, 325 ("reptilien").
1911 B, 748 ("reptilien").
1926 A, 103 ("reptilien").
Lull, R. S. 1917 B, 308, 322, 337, 494.
1919 A, 223 ("reptiles").
Lydekker, E. R. 1901 A, 646 ("reptiles").
1903 D, 75.
1912 C.
McMurrich, J. P. 1912 A, 168.
Major, C. J. F. 1901 A, 150.
Mantell, G. A. 1844 A, 686 ("reptiles").
Marsh, O. C. 1899 C, 71 ("reptiles").
Martins, C. 1857 A ("reptiles").
1872 A, 307 ("reptiles").
Matthes, E. 1921 C ("reptilien").
Matthew, W. D. 1915 A, 181, 185, 274.
1916 C, 519.
1916 H, 13 ("reptiles").
1923 C, 403.
Mead, C. S. 1904 A, 53 ("reptiles").
Meckel, J. F. 1825 A ("amphibien").
Meek, A. 1911 A, 375.
Meunier, S. 1903 A, 774 ("reptiles").
Meyer, H. 1845 C, 280 (Saurii).
Miner, R. W. 1925 A, 148 ("reptiles").
Mivart and Clarke 1879 A, 530 ("reptiles").
Mollier, S. 1895 B, 8 ("reptilien").
Montgomery, J. H. 1901 A, 21732 ("reptiles").
Moodie, R. L. 1908 D, 443 ("reptiles").
1909 F, 216.
1909 G, 362.
1911 H, 239.
1912 C, 337.
1915 I, 135 ("reptiles").
Mook, C. C. 1918 A, 465.
Müller, J. 1832 A, 507 (Amphibia squamata).
Nauck, E. T. 1923 A, 2 ("reptilien").
Nitzsch, C. L. 1822 A, 68 ("amphibien").
Nopcsa, F. 1922 A, 107 ("reptilien").
1923 B, 353 ("reptilien").
1923 E, 1045.
1923 H ("reptilien").
1926 A, 644 ("reptiles").
1928 A, 163-188.
Osborn, H. F. 1899 J, 415.
1904 H, 93.
1904 M, 257.
1904 N, 308.
1905 N, 237 ("reptiles").
1910 B, 629 ("reptiles").
1916 E, 511, 602.
1917 B, 320.
1925 F, 962 ("reptiles").
Osburn, R. C. 1906 A, 447 ("reptiles").
Otto, H. 1908 A, 193 ("reptilien").
Owen, R. 1842 F, 65 ("reptiles").
1846 E ("reptiles").
1848 B.
1868 A, 905.
Packard, A. S. 1904 A, 221 ("reptiles").
Palacký, J. 1894 A, 129 ("reptilien").
Paramore, R. H. 1910 A, 1395 ("reptiles")

Parker, W. K. 1864 B, 56 ("reptiles").
1869 A, 501 ("reptiles").
1887 B, 53 ("reptiles").
1888 C, 397 ("reptiles").
1888 D, 475 ("reptiles").
1890 A, 62 ("reptiles").
Parker and Haswell 1897 A, 291, 315.
Parsons, F. G. 1903 A, 315 ("reptiles").
Perna, G. 1906 A, 135 ("reptilien").
Perrier, E. 1920 A ("reptiles").
Perrin, A. 1899 A, 524 ("reptiles").
Petronievics, B. 1917 A, 288 ("reptiles").
1919 B, 206 ("reptiles").
1921 A, 104 ("reptiles").
Pfeiffer, H. 1854 A, 33 ("amphibien").
Philippi, Frech and Volz 1903 A, 14 ("reptilien").
Pinkus, F. 1904 A, 150 ("reptilien").
Plieninger, F. 1906 A, 405 ("reptilien").
Pompeckj, J. F. 1925 A ("reptilien").
Puccioni, N. 1908 A, 56 ("rettili").
Pycraft, W. P. 1909 A, 204.
1910 A, 30.
Rabl, C. 1901 A, 520 ("reptilien").
1903 A ("reptilien").
Reis, E. L. 1920 A.
Reis, O. M. 1893 A, 523 ("reptilien").
Reynolds, S. H. 1897 A, 190-294.
Röse, C. 1892 F ("reptilien").
1892 G, 127 ("reptilien").
1897 A, 60 ("reptilien").
Rogenhofer, A. 1908 A (42) ("reptilien").
Romer, A. S. 1922 A, 39, 41.
1922 B, *passim.*
1923 B, 533 ("reptiles").
Rosenberg, A. 1873 A, 151 ("reptilien").
Rosenberg, E. 1895 A, 298 ("reptilien").
Rutland, J. 1901 A, 21032 ("reptiles").
Ryder, J. 1887 A, 344 ("reptiles").
Sabatier, A. 1897 A, 805 ("reptiles").
1897 B, 933 ("reptiles").
1902 A, 99 ("reptiles").
Schauinsland, H. 1906 A, 514.
Schlosser, M. 1898 D, 120 ("reptilien").
1899 C, 165 ("reptilien").
1903 G, 144 ("reptilien").
Schmalhausen, J. J. 1923 B, 544.
Schmidt, W. J. 1912 A, 75-104.
1912 B, 140 ("reptilien").
Schoenichen, W. 1900 A, 501 ("reptilien").
Schuchert, C. 1914 B, 283 ("reptiles").
1915 A, 754, 804.
Schuchert and Barrell 1914 A, 24 ("reptiles").
Schwarz, H. 1908 A, 326 ("reptilien").
Scott, W. B. 1913 A, 689.
1917 A, 181 ("reptiles").
1928 A, 331 ("reptiles").
Seeley, H. G. 1876 C, 155.
1887 D, 340.
1887 E, 187.
1888 I, 235.
1900 A, 281.
1901 A, 4 ("reptiles").
1908 B, 376.
1909 A, 714.
Seemann, G. 1926 A, 105-135 ("reptilien").
Sera, G. L. 1921 A, 47 ("rettili").
Serres, M. 1852 A ("reptiles").
1852 B, 192 ("reptiles").
Sewertzoff, A. N. 1904 A, 473 ("reptilien").
1908 A.
Seydel, O. 1899 A ("reptilien").
Shiino, K. 1914 A, 378 ("reptilien").
Shore, T. W. 1887 A, 363.
Simpson, G. G. 1926 A, 548 ("reptiles").
Sirena, S. 1872 A, 125, 136 ("reptilien").
Sixta, V. 1899 A, 329 ("reptilien").
1900 A, 213 ("reptilien").
1900 B ("reptilien").
1901 A, 321 ("reptilien").
1905 A, 672 ("reptilien").
Smith, G. E. 1911 A, 293.
1912 A, 425.
Spencer, W. B. 1886 A, 170, 220.
Spurrell, H. G. F. 1906 A, 119 ("reptilien").
Stehli, G. 1910 A, 737 ("reptilien").
Steiner, H. 1922 A ("reptilien").
Steinmann, G. 1907 A, 427.
1908 A, 210 ("reptilien").
1909 A, 65 ("reptilien").
1912 B, 717 ("reptilien").
Stejneger, L. 1907 C, 161.
Stephan, P. 1900 A, 361, 411 ("reptiles").
Strecker, C. 1887 A, 303 ("reptilien").
Stremme, H. 1909 A, 504 ("reptilien").
Stromer, E. 1912 A, 66, 125.
Suschkin, P. P. 1910 A, 244 ("reptilien").
1927 A, 281, 287, 310 ("reptiles").
Swinnerton and Howes 1901 A, 3.
Taschenberg, O. 1894 A, 3575.
Terra, P. 1911 A, 139, 227 ("reptilien").
Terry, R. J. 1909 A, 526 ("reptiles").
Thevenin, A. 1909 A, 1224 ("reptiles").
1910 A, 40 ("reptiles").
Thilenius, G. 1897 A, 490 ("reptilien").
Thyng, F. W. 1906 A, 48.
Tims, H. W. M. 1902 A, 323.
1903 A, 131.
Tomes, C. S. 1875 A, 93.
1875 B, 95.
Tornier, G. 1894 A, 96 ("reptilien").
1909 C, 544 ("reptilien").
1913 A, 315.
Van Gelderen, C. 1925 A, 497 ("reptilien").
Van Straelen, V. 1928 A, 295 ("reptiles").
Van Wijhe, J. W. 1922 A, 292 ("reptilien").
Versluys, J. 1911 A, 141 ("reptilien").
1914 A, 69 ("reptilien").
Vialleton, L. 1917 A, 192 ("reptiles").
Virchow, H. 1914 A, 69 ("reptilien").
Vitali, G. 1909 A, 210 ("rettili").
Voeltzkow, A. 1899 A.
Voeltzkow and Döderlein 1901 A, 313 ("reptilien").
Vogt, C. 1879 A, 241 ("reptiles").
Voit, M. 1909 B, 139 ("reptilien").
Wagner, R. 1843 A, 146 ("amphibien").
Wallace, A. R. 1876 A, I, 501; II, 598.
Wallisch, W. 1922 A, 534 ("reptilien").
Wamich, P. 1913 A ("reptilien").
Watkinson, G. B. 1906 A, 350 ("reptiles").
Watson, D. M. S. 1911 A, 323 ("reptiles").
1913 D, 24 ("reptiles").
1916 A, 341, 351 ("reptiles").

Watson, D. M. S. 1917 B, 54 ("reptiles").
 1917 C, 171.
 1919 B, 59, 60.
 1919 C, 239 ("reptiles").
 1926 A, 202 ("reptiles").
Wegner, R. N. 1922 A, 413 ("reptilien").
Weidenreich, F. 1926 A, 45 ("reptilien").
Werner, F. 1904 A, 336.
Wiedersheim, R. 1880 E, 493 ("reptilien").
 1892 A, 50 ("reptilien").
Williston, S. W. 1904 B, 175.
 1911 B, 70.
 1912 E, 259.
 1912 F, 91.
 1913 B, 625.
 1914 A, 5, 15.
 1914 D, 410 ("reptiles").
 1916 B, 194, 211.
 1916 D, 152 ("reptiles").
 1917 C, 411 ("reptiles").
Williston, S. W. 1917 D, 985.
 1918 A, 75 ("reptiles").
 1925 A, 1-300, figs. 1-191.
Wiman, C. 1916 D, 413 ("reptiles").
Windle, B. C. A. 1905 A, 1055 ("reptilien").
Woodward, A. S. 1910 B, 464 ("reptiles").
 1917 D, lxxiv ("reptiles").
 1922 C, 1-44.
Woodward, H. 1904 B, 142.
Woodward and Sherborn 1891 A, 31.
Wright, W. 1909 A, 673.
Ziegler, H. E. 1901 A, 235 ("reptilien").
 1924 A, lx ("reptilien").
Zierler, F. E. 1905 A, 511 ("reptilien").
Zittel, K. A. 1895 A, 306.
 1897 A, 127 ("reptilien").
 1901 A, 410 ("reptiles").
Zittel and Broili 1911 A, 179.
 1923 A, 209-383.
Zittel, Eastman, etc. 1902 A, 140.

Subclass ATREMATA, new name.

The term Synapsida, as employed by the authors cited, includes much more than the Cotylosauria. The same is true of Williston's Anapsida.

Abel, O. 1912 F, 221.
Broom, R. 1904 B, 93.
 1904 C, 111.
 1906 F, 374.
 1907 A, 37.
 1908 A, 1048.
 1922 A, 25.
 1924 B, 40, 64.
Fuchs, H. 1909 B, 140, 149, 150.
 1911 B.
Fürbringer, M. 1904 A, 581.
Goodrich, E. S. 1916 A, 263.
Huene, F. 1911 D, 58.
Jaekel, O. 1905 B, 61.
 1908 A, 140 (Synapsidia).
 1908 B, 464.
Nopcsa, F. 1928 A, 164 (Anapsida in part).
Osborn, H. F. 1903 F, 276.
 1903 H, 452, 455, 459, 465, 506.
 1904 H, 99.
 1904 L, 256.
 1904 N, 308.
 1904 S, 366 (Lynapida, err. typ.).
 1905 C, 295.
 1918 D, 684 (Anapsida).
Plieninger, F. 1906 A, 406.
Romer, A. S. 1922 B, 523 (Anapsida).
Thevenin, A. 1909 A, 1224 ("synapsidés").
Versluys, J. 1919 A, 2, 25.
Williston, S. W. 1904 B, 175.
 1907 A, 487.
 1908 I, 629.
 1911 B, 66.
 1914 A, 15.
 1917 C, 419, 420 (Anapsida, in part).
 1925 B, 210, 215 (Anapsida, in part).
Zittel and Broili 1923 A, 221.

Order COTYLOSAURIA Cope.

Hay, O. P. 1902 A, 426.
Abel, O. 1912 F, 221.
 1919 A, 333.
 1920 A, 350, 357.
 1922 C, 568 ("cotylosaurier").
 1926 B, 205-214.
Anonymous 1912 A, 520.
Arldt, T. 1908 A, 571, 585.
 1916 A, 101 ("cotylosaurier").
Bluntschli, H. 1912 B, 387 ("cotylosaurier").
Boas, J. E. V. 1914 B, 556 ("cotylosaurier").
Boulenger, G. A. 1904 C, 476, 480.
 1917 C, 456.
 1917 F, 33.
 1918 E, 516 ("cotylosauriens").
Broili, F. 1904 A, 67, 68.
 1904 C, 273 ("cotylosaurier").
 1904 D, 577 ("cotylosaurier").
 1905 A, 14 ("cotylosaurier").
 1908 A, 8 ("cotylosaurier").
 1924 A, 11 ("cotylosaurier").
Broom, R. 1897 C, 279 (Theromora, in part).
Broom, R. 1902 D, 556.
 1903 D, 286.
 1903 I, 556.
 1904 B, 90.
 1904 C, 109.
 1905 B, 213.
 1905 F, 40 ("cotylosaurians").
 1907 A, 35 ("cotylosaurians").
 1908 A, 1049.
 1908 D, 565.
 1909 B, 166.
 1910 A, 214.
 1910 C, 475.
 1911 A, 917.
 1912 A, 627 ("cotylosaurs").
 1912 B, 421.
 1913 B, 465 ("cotylosaurs").
 1913 J, 361.
 1913 L, 230 ("cotylosaurs").
 1913 N, 87 ("cotylosaurs").
 1914 C, 135.
 1915 C, 8.

Broom, R. 1918 A, 238 ("cotylosaurs").
1922 A, 19, 23, 25.
1924 B, 49, 63, fig. 13.
1925 A, 15 ("cotylosaurs").
Broom and Haughton 1913 A, 19 ("cotylosaurs").
Camp, C. L. 1923 A, 392.
Case, E. C. 1903 A, 99.
1905 B, 127.
1905 C, 70.
1907 E, 157.
1908 C, 577.
1910 C, 192.
1911 A, 3, 9, 10, 63, 96, 115.
1912 A, 202 ("cotylosaurs").
1915 A, 97, 108, 123, 134.
1923 A, 517.
Cope, E. D. 1891 N, 39.
Diener, C. 1909 A, 36.
DuToit, P. J. 1911 A, 420.
Frassetto, F. 1915 A, 19.
Fuchs, H. 1907 A, 161.
1909 B, 120 ("cotylosaurier").
1911 B, 398 ("cotylosaurier").
1920 A.
1920 B, 369.
1926 B, 4, 31.
Fürbringer, M. 1904 A ("cotylosaurier").
Gaupp, E. 1912 A, 567 ("cotylosaurier").
1913 A, 58 ("cotylosaurier").
Geol. Magazine 1912 A, 520.
Goodrich, E. S. 1916 A, 262, 266.
Gregory, W. K. 1910 A, 114, 115.
1913 B, 242 ("cotylosaurs").
1913 E, 39 ("cotylosaurs").
1920 A, 228.
1922 A, 12, 80, 509, 518.
Gregory and Adams 1915 A, 763 ("cotylosaurs").
Hay, O. P. 1905 D, 125.
1905 H, 296.
1908 A, 28.
1912 C, 563, 564.
Heilmann, G. 1926 A, 85.
Hilzheimer, M. 1913 A, 474 ("cotylosaurier"); 513 ("theromoren," in part).
Huene, F. 1909 D, 334 ("cotylosaurier").
1910 B, 52 ("cotylosaurier").
1910 D, 313 ("cotylosaurier").
1911 D, 44, 55.
1911 E, 119 ("cotylosaurier").
1911 F, 81 ("cotylosaurier").
1912 A, 69 ("cotylosaurier").
1912 F, 524 ("cotylosaurier").
1913 G, 502.
1914 G, pl. vii.
1914 J, lxxxix ("cotylosaurier").
1916 A, 63 ("cotylosaurier").
1920 C, 211.
1920 D, 163 ("cotylosaurier").
1921 A, 236 ("cotylosaurier").
1922 B, 70, 72, 107 ("cotylosaurier").
1922 E, 25 ("cotylosaurians").
1922 G, 451 ("cotylosaurier").
1923 C, 464, 466.
1925 D, 229, 233.
1925 I, 249.
1926 A, 260, 266.
1926 I, 78 ("cotylosaurier").

Jaekel, O. 1910 D, 114, 121.
1911 A, 121.
1914 A, 203 ("cotylosauriden").
Lakjer, T. 1927 A ("cotylosaurier").
Loomis, F. B. 1921 A, 193.
Lull, R. S. 1924 A, chart.
Lydekker, R. 1912 C, 4, 16.
1915 C, 636.
Merriam, J. C. 1912 B, 222.
Moodie, R. L. 1909 C, 121.
1909 F, 219.
1911 E, 250.
1913 A, 192.
1915 G, 371.
Nauck, E. T. 1923 A, 2 ("cotylosaurien").
Nopcsa, F. 1922 A, 109, 116, 117.
1923 E, 1049.
1923 F, 4, 10.
1923 H, *passim.*
1926 A, 635.
1928 A, 164.
Osborn, H. F. 1899 J, 415 (Theromora, in part; Cotylosauria).
1903 H, 452, 453, 456, 506.
1904 H, 99.
1904 N, 307.
1905 N, 237.
1912 J, 5 ("cotylosaurs").
1917 B, 185, 191.
Pompeckj, J. F. 1912 A, 339 ("cotylosaurier").
1925 A, 23 ("cotylosaurier").
Raymond, P. E. 1907 A, 835 ("theromorphs").
Romer, A. S. 1922 B, 519, 523.
1925 B, 460.
Schuchert, C. 1915 A, 809.
Sewertzoff, A. N. 1908 A.
Sollas, W. J. 1916 A, 115, 116.
Stappenbeck, R. 1905 A, 387, 427 ("cotylosaurier"); 427 (Theromora, in part).
Steiner, H. 1922 A, 339 ("cotylosaurier").
Steinmann, G. 1908 A, 210.
Stromer, E. 1912 A, 106 (Theromora, in part); 108 (Cotylosauria).
Sushkin, P. P. 1925 A, 180.
1927 A, 313.
Thevenin, A. 1910 A, 38, 41 ("cotylosauriens").
Thyng, F. W. 1906 A, 49.
Tornier, G. 1913 B, 338, 374.
Versluys, J. 1912 A, 500 ("cotylosaurier").
1912 B, 548, 550, 606, 687.
1919 A, 4, 19, 26.
Watson, D. M. S. 1912 B, 584.
1914 A, 308 ("cotylosaurs").
1914 B, 89 ("cotylosaurs").
1914 D, 168.
1914 E, 744.
1914 G, 1003 ("cotylosaurs").
1917 B, 1, 4.
1917 C, 171.
1918 A, 286 ("cotylosaurs").
1919 A, 286 ("cotylosaurians").
1926 A, 241.
Williston, S. W. 1904 B, 175, 176.
1907 A, 489 (Chelydosauria).
1908 A, 139.
1908 B, 395, 400.
1909 A, 393.

Williston, S. W. 1910 B, 69 ("cotylosaurs").
1911 B, 15, 66.
1911 C, 631.
1911 F, 662.
1912 A, 463.
1912 B, 638, 645.
1912 F, 92 ("cotylosaurs").
1914 A, 16, 45.
1914 C, 63.
1914 E, 121.
1914 F, 777.
Williston, S. W. 1916 A, 165.
1916 B, 193, 211 (Cotylosauria); 196 (Theromora, in part).
1917 C, 415 (Cotylosauria); 419 (Chelydosauria).
1925 A, *passim.*
1925 B, 210, 215, 221.
Wiman, C. 1917 A, 236 ("cotylosaurier").
1921 A, 27.
Zittel and Broili 1911 A, 188.
1923 A, 216, 221, 223.

Suborder CONODECTIFORMES, new name.

Gregory, W. K., in Williston, S. W. 1925 A, viii (Seymouriamorpha).
Nopcsa, F. 1923 H, 17, 121 (Seymouriamorpha).
1928 A, 164 (Seymouriamorpha, Seymouriamorphoidea).
Pearson, H. S. 1924 C, 343 (Seymouriamorpha).
Romer, A. S. 1925 B, 461 (Seymouriamorpha).
Sushkin, P. P. 1925 A, 179 (Seymouriamorpha).
1927 A, 309 (Seymouriamorpha).
Watson, D. M. S. 1917 C, 171 (Seymouriamorpha).

CONODECTIDÆ, new name.

Hay, O. P. 1902 A, 429 (Otocœlidæ, part).
Abel, O. 1919 A, 342 (Seymouridæ).
Arldt, T. 1912 A, 656 (Seymouridæ).
Broili, F. 1927 A, 188 (Seymouridæ).
Case, E. C. 1911 A, 9, 50, 64, 66, 112 (Seymouriidæ).
1915 A, 98 (Seymouriidæ).
1926 B, 193 (Seymouridæ).
Case and Williston 1913 B, 24 (Seymouriidæ).
Eastman, C. R. 1912 C, 657 (Seymouriidæ).
Lakjer, T. 1927 A, 240 (Seymouriidæ).
Nopcsa, F. 1923 H, 15, 121, 151 (Seymouridæ).
1928 A, 164 (Seymouriidæ).
Sushkin, P. P. 1928 A, 266, 268 ("seymourians").
Versluys, J. 1912 B, 613 (Seymouriidæ).
Williston, S. W. 1911 A, 237 (Seymouriidæ).
1911 B, 48 (Seymouriidæ).
1911 C, 631 (Seymouriidæ).
1912 B, 647 (Seymouriidæ).
1916 B, 215 (Seymouriidæ).
1925 B, 217 (Seymouriidæ).
Zittel and Broili 1923 A, 225 (Seymouridæ).

CONODECTES Cope. Type *C. favosus* Cope.

Unless otherwise indicated the authors, as quoted, use for this genus the name *Seymouria.*

Hay, O. P. 1902 A, 430 (Conodectes).
Amalitsky, V. P. 1921 A, 9.
1921 B, 1.
1924 A, 58.
1924 B, 64.
Anonymous 1912 A, 520.
Boas, J. E. V. 1914 B, 556, fig. 11.
Broili, F. 1904 A, 68, 81 (Seymouria, type *S. baylorensis*); 100 (Conodectes).
1904 D, 580.
1924 A, 4.
1927 A, 185, fig. 1.
Broom, R. 1912 A, 627.
1915 C, 8.
1922 A, 25.
1922 B, 458 (Conodectes, Seymouria).
1924 B, 64, fig. 13.
Case, E. C. 1905 A, 298 (Conodectes).
1905 B, 127 (Conodectes).
1907 D, 558 (Conodectes).
1908 D, 565 (Conodectes).
1911 A, 9, 50, 66, 112 (Seymouria); 61 (Desmospondylus); 9, 52, 112 (Conodectes).
1911 B, 54, 59 (Conodectes).
1915 A, 137.
Case and Williston 1913 B, 22.
Eastman, C. R. 1915 C, 659.
Fuchs, H. 1909 B, 121.
Geol. Mag. 1912 A, 520.
Gregory, W. K. 1913 B, 242.
1919 B, 422, fig. 2.
1920 A, 120, figs. 26, 29.
1922 A, 509, 518, fig. 347.
1926 B, 425.
1927 G, 268, fig. 1.
Hanson, F. B. 1920 B, 333, 337.
Hay, O. P. 1912 C, 563.
Huene, F. 1912 F, 524.
1913 B, 368, 376 (Seymouria a syn.).
1923 D, 269.
1926 A, 264, fig. 1.
Kingsley, J. S. 1925 A, 143, fig. 152.
Lakjer, T. 1927 A, 224, fig. 118.
Lydekker, R. 1913 A, 17.
Mook, C. C. 1921 D, 101.
Morton, D. J. 1926 A, 413.
Nauck, E. T. 1923 A, 2.
Nopcsa, F. 1922 A, 109.
1923 E, 1047.
1923 H, 12-16, 20, 22, 70, 155-157, 160, 186, tab., pl. iv, fig. 2.
1926 A, 635.
1928 A, 164.
Osborn, H. F. 1917 B, 187, fig.
Pearson, H. S. 1924 C, 338, 343.
Romer, A. S. 1922 A, 41, fig. 1.
1922 B, *passim.*
1925 A, 181.
1925 B, 461.
1926 A, 59.
1927 B, 680.

Romer, A. S. 1928 C, 248 (Seymouria); 258 (Conodectes).
Stappenbeck, R. 1905 A, 401, 403 (Seymouria); 430 (Conodectes).
Sushkin, P. P. 1925 A, 179 (Conodectes, Seymouria).
1928 A, 277.
Thevenin, A. 1910 A, 41.
Tornier, G. 1913 B, 339.
Versluys, J. 1909 A, 286.
1912 B, 564, 585.
1919 A, 4, fig. 1.
Watson, D. M. S. 1912 A, 9.
1913 F, 955.
1914 B, 84.
1914 D, 166-170.
1914 G, 1004.
1914 I, 532.
1914 M, 348.
1916 C, 618, 630, 632.
1917 B, 6, 49, 59.
1917 C, 171.
1919 A, 267.
1921 B, 98.
Williston, S. W. 1908 A, 148.
1910 A, 281 (Seymouria); 250, 280 (Desmospondylus, type *D. anomalus*).
1910 D, 534 (Conodectes).
1910 F, 586 (Desmospondylus).
1911 B, 42, 48.
1911 C, 631 (Conodectes, Desmospondylus).
1911 F, 662.
1912 E, 260.
1914 A, 21, figs. 4, 5, 25.
1914 E, 121.
1916 B, 217, figs. 59-61 (Seymouria, Conodectes).
1916 C, 291.
1917 A, 309.
1918 A, 76, fig. 1.
1925 A, *passim*, figs. 1, 2, 21, 76, 96, 130.
1925 B, 210, 215, 217, fig. 162.
Zittel and Broili 1911 A, 189.
1923 A, 225.

Conodectes favosus Cope.

Hay, O. P. 1902 A, 430.
Abel, O. 1912 F, 386, fig. 272 (Desmospondylus anomalus); 388 (Seymouria baylorensis).
1919 A, 345, fig. 265 (S. baylorensis).
1920 A, 359, fig. 564 (S. baylorensis).
1922 C, 570, fig. 477 (S. baylorensis).
Beede, J. W. 1907 A, 120.
Broili, F. 1904 A, 81, pl. xiii, figs. 1-3 (Seymouria baylorensis).
1904 D, 580, figs. 2, 6 (S. baylorensis).
Broili, F. 1917 A, 564, fig. 3 (S. baylorensis).
Broom, R. 1921 A, 146, fig. 6 (Seymouria baylorensis).
1922 B, 457, fig. 7.
Case, E. C. 1911 A, 50, 112, pl. xiii, figs. 1-5 (Seymouria baylorensis); 61, pl. xi, figs. 4, 5 (Desmospondylus anomalus); 52, 112 (C. favosus).
1911 B, 100, pl. xix, fig. 3 (Desmospondylus anomalus); 58, text-fig. 11 (C. favosus).
1915 A, 98, 137, text-fig. 23 (Seymouria baylorensis); 98 (C. favosus).
Cummins, W. F. 1908 A, 744.
Fuchs, H. 1909 B, 121, fig. 6 (Seymouria baylorensis).
Hay, O. P. 1912 C, 562 (Seymouria baylorensis).
Hilzheimer, M. 1913 A, 513, fig. 9 (Seymouria baylorensis).
Huene, F. 1912 F, 523, fig. 5 (Seymouria baylorensis).
1913 B, 368, fig. 52 (Seymouria=Condectes).
1922 B, 71 (Seymouria baylorensis).
Lakjer, T. 1927 A, 225, fig. 85 (Seymouria baylorensis).
Nauck, E. T. 1923 A, 6 (Seymouria babylorensis).
Osborn, H. F. 1918 D, 686 (Seymouria baylorensis).
Romer, A. S. 1928 C, 249, figs. 1-4 (Seymouria baylorensis).
Stappenbeck, R. 1905 A, 425 (Seymouria baylorensis).
Versluys, J. 1912 B, 591, 613, figs. l^1, x^1 (S. baylorensis).
Watson, D. M. S. 1914 D, 170, 172 (S. baylorensis).
1916 C, 618.
1919 A, 267, figs. 1-15 (S. baylorensis).
Williston, S. W. 1910 A, 280, pl. xvi (Desmospondylus anomalus).
1910 F, 596, text-fig. 3 (Desmospondylus anomalus).
1911 A, 232, fig. (S. baylorensis).
1911 B, 48, pl. xiii, figs. 4-8, pls. xxvi-xxix; text-figs. 18-22 (S. baylorensis).
1914 C, 66, fig. 8 (S. baylorensis).
1925 A, 33, figs. 19, 20 (S. baylorensis).
Zittel and Broili 1911 A, 190, fig. 320 (S. baylorensis).
1923 A, 225, fig. 323 (Seymouria baylorensis).

Permian (Clear Fork); Texas: (Enid); Oklahoma.

Conodectes sp. indet.

Romer, A. S. 1927 A, 232.

Permian (Clear Fork); Texas.

Suborder SAURAVIFORMES, new name.

Nopcsa, F. 1923 H, 16 (Rhizosauria).

SAURAVIDÆ Williston.

Williston, S. W. 1916 B, 217.
Huene, F. 1908 B, 378 (Sauravus).
Moodie, R. L. 1909 B, 13 (Sauravus).
Nopcsa, F. 1923 H, 16, 121, 151 (Sauravidæ, Datheosauridæ).
Romer, A. S. 1925 B, 461 (Sauravus).
Williston, S. W. 1911 B, 54 (Sauravus).
1916 B, 217.
1925 B, 217.
Zittel and Broili 1923 A, 253 (Datheosaurus).
Zittel and Schlosser 1923 A, 202 (Sauravus).

EOSAURAVUS Williston. Type *E. copei* Williston.

Williston, S. W. 1910 A, 272.
Abel, O. 1919 A, 245.
Arldt, T. 1912 A, 650.
Beede, J. W. 1922 A, 680.
Case, E. C. 1911 A, 9, 31.
Gregory, W. K. 1915 D, 363, fig. 11.
  1922 A, 509.
Miner, R. W. 1925 A, 189.
Moodie, R. L. 1915 A, 510.
Nopcsa, F. 1922 A, 109.
  1923 H, 15, 16, 137, pl. vi, fig. 5.
Romer, A. S. 1925 B, 461, 462.
Watson, D. M. S. 1919 A, 294.
Williston, S. W. 1911 B, 54.
  1912 B, 659.
  1915 B, 247.
  1916 B, 217, fig. 62.
  1925 A, 1, 169, 183, 185, 199.
  1925 B, 216, 217, fig. 161.
Zittel and Broili 1923 A, 230.

Eosauravus copei Williston.

Williston, S. W. 1908 B, 395, 399, text-figs. 1, 2 (Isodectes).
Hay, O. P. 1902 A, 415 (Tuditanus punctulatus, in part).
Abel, O. 1912 F, 216, fig. 148 (Isodectes).
Beede, J. W. 1922 A, 682.
Broili, F. 1904 A, 27 (Tuditanus punctulatus).
Broom, R. 1921 A, 146, fig. 5.
Case, E. C. 1911 A, 31, text-fig. 8.
  1915 A, 80, 94, 155.
  1917 B, 818.
Cope, E. D. 1897 C, 88 (Isodectes punctulatus).
  1898 B, 61 (Isodectes punctulatus).
Jaekel, O. 1909 B, 602, fig. 12 (Isodectes).
Kukuk, P. 1926 A, 613 (Isodectes punctulatus).
Lydekker, R. 1909 C, 468 (Isodectes).
  1910 F, 672 (Isodectes punctatus).
Merrill, G. P. 1907 A, 73 (Isodectes punctulatus).
Moodie, R. L. 1909 B, 11, pls. iv, v (Isodectes punctulatus).
  1909 F, 217 (Isodectes).
  1909 G, 362 (Isodectes punctulatus).
  1911 C, 383.
  1911 H, 241, pl. ii, fig. 2 (Isodectes).
  1915 A, 510, fig. 1.
  1916 A, v, 86, 174, pl. xx, fig. 3.
Watson, D. M. S. 1919 A, 294.
  1926 A, 240.
Williston, S. W. 1910 A, 272.
  1910 F, 599 (=Isodectes punctulatus Moodie).
  1911 B, 40, text-fig. 44.
  1912 B, 656 (Isodectes).
  1914 A, 52.
Pennsylvanian (Linton); Ohio.
See *Tuditanus punctulatus.*

Suborder GYMNARTHRIFORMES, new name.

Case, E. C. 1910 A, 177 (Gymnarthria).
  1911 B, 69, 84 (Gymnarthria).
Case, E. C. 1915 A, 97, 102 (Gymnarthria).

GYMNARTHRIDÆ Case.

Case, E. C. 1910 A, 177.
Abel, O. 1919 A, 345.
Arldt, T. 1912 A, 656.
  1916 A, 99, 142 ("gymnarthren").
Case, E. C. 1911 B, 14, 69, 84.
  1915 A, 97.
Huene, F. 1913 B, 375.
Williston, S. W. 1916 B, 217.
  1925 B, 217.

GYMNARTHRUS Case. Type *G. willoughbyi* Case.

Case, E. C. 1910 A, 177.
Arldt, T. 1916 A, 99.
Broom, R. 1910 A, 219, fig. 15.
Case, E. C. 1911 B, 14, 84, 144.
  1915 A, 102, 132.
Huene, F. 1913 B, 375, 377.
Moodie, R. L. 1911 C, 382.
  1915 G, 373.
Nopcsa, F. 1922 A, 109.
Williston, S. W. 1916 B, 217.
  1925 B, 218.

Gymnarthrus willoughbyi Case.

Case, E. C. 1910 A, 177, text-fig. 8.
Broili, F. 1913 A, 100 (Cardiocephalus).
Case, E. C. 1911 B, 69, 144, text-figs. 16, 49.
  1915 A, 97.
Huene, F. 1913 B, 326, figs. 11-14.
Moodie, R. L. 1911 C, 379.
  1914 A, 19.
Permian (Clear Fork); Texas.

CARDIOCEPHALUS Broili. Type *C. sternbergi* Broili.

Broili, F. 1904 A, 45, 49.
  1913 A, 98.
Case, E. C. 1911 B, 14, 70, 84, 145.
Williston, S. W. 1910 A, 281 (Cardiacephalus).
  1910 D, 535 (Cardiacephalus).
  1916 B, 219, fig. 63.
  1925 B, 218.

Cardiocephalus sternbergi Broili.

Broili, F. 1904 A, 45, pl. vi, fig. 5.
  1913 A, 100.
Case, E. C. 1911 B, 70, text-fig. 17.
  1915 A, 97.
Moodie, R. L. 1914 A, 16.
Sternberg, C. H. 1909 C, 255 (Cardicephalus)
Williston, S. W. 1910 D, 535.
Permian (Clear Fork); Texas.

Suborder DIADECTIFORMES, new name.

Hay, O. P. 1902 A, 429 (Otocœlidæ, in part).
Case, E. C. 1905 A, 298 (Chelydosauria, in part).
1905 B, 126 (Chelydosauria, in part).
1907 E, 157 (Chelydosauria).
1908 D, 565 (Chelydosauria).
1911 A, 9, 10, 63, 85 (Diadectosauria).
Gregory, W. K. 1920 A, 228 (Diadectomorpha).
Hay, O. P. 1905 D, 125 (Chelydosauria).
1905 D, 125 (Chelydosauria).
1905 H, 296 (Chelydosauria).
1908 A, 28 (Chelydosauria).
Huene, F. 1913 B, 375 (Diadectosauria).
Schuchert, C. 1910 A, 570 (Chelydosauria).
Sushkin, P. P. 1927 A, 312 ("diadectids").
Watson, D. M. S. 1917 C, 171 (Diadectomorpha).
1919 A, 286 (Diadectomorpha).
Williston, S. W. 1914 A, 16, 45 (Diadectosauria).
1916 B, 195 (Diadectosauria).
1925 B, 210, 218 (Diadectosauria).
Zittel and Broili 1923 A, 229 (Diadectosauria).

DIADECTIDÆ Cope.

Hay, O. P. 1902 A, 426.
Abel, O. 1919 A, 339.
Arldt, T. 1907 D, 650.
1912 A, 656 (Diadectidæ, Nothodontidæ).
Boulenger, G. A. 1904 C, 479.
Broili, F. 1904 A, 69, 100.
Broom, R. 1903 D, 288, 292.
1908 A, 1050.
1925 A, 15 ("diadectids").
Case, E. C. 1903 A, 99.
1903 C, 400, figs. 3, 6-10.
1905 A, 298.
1905 B, 126.
1908 B, 236.
1911 A, 9, 10, 64, pl. ix (Diadectidæ); 9, 30, 65 (Nothodontidæ).
1915 A, 97, 102.
1926 B, 193.
1928 A, 178.
Case and Williston 1912 A, 348.
1913 B, 23.
Cope, E. D. 1885 BB, 70.
1891 N, 36.
Gregory, W. K. 1910 A, 114.
Hay, O. P. 1908 A, 28.
Huene, F. 1913 B, 375.
Jaekel, O. 1911 A, 123.
Nopcsa, F. 1923 E, 1052.
1923 F, 4, 5.
1923 H, 18, 20, 21, 22, 40, 70, 121, 136, 151, 165, 193.
1928 A, 164.
Romer, A. S. 1925 B, 452 ("diadectids").
Sushkin, P. P. 1928 A, 278.
Tornier, G. 1913 B, 340.
Versluys, J. 1912 B, 585, 617, 687.
Watson, D. M. S. 1917 B, 5.
1917 C, 171.
1919 A, 295.
Williston, S. W. 1908 A, 140.
1911 B, 16.
1911 C, 631.
1912 A, 458.
1916 B, 213.
1925 A, 34.
1925 B, 218.
Zierler, F. E. 1905 A, 512 ("diadektiden").
Zittel and Broili 1911 A, 192.
1923 A, 229.
Zittel, Eastman, etc. 1902 A, 182.

DIADECTES Cope. Type *D. sideropelicus* Cope.

Hay, O. P. 1902 A, 427 (Diadectes); 428 (Nothodon).
Abel, O. 1909 F, 455.
1912 F, 531, 668.
1919 A, 340.
1920 A, 358.
Boulenger, G. A. 1904 C, 478.
Broili, F. 1904 A, 100.
1904 D, 585.
Broom, R. 1903 D, 292.
1905 B, 214.
1908 A, 1050.
1910 A, 215, 231.
1910 C, 475.
1911 A, 920.
1913 G, 339.
1914 A, 109.
1914 C, 137.
1914 G, 304.
1915 C, 8, 30.
1922 A, 19, 25.
1924 B, 64, fig. 13.
1925 A, 15.
1926 A, 263.
Broom and Haughton 1913 A, 19.
Case, E. C. 1905 A, 298.
1907 D, 557, figs. 1, 2.
1908 B, 237, fig. 5.
1908 D, 565, fig. 11.
1910 C, 192, 195.
1911 A, 9, 11, 64, 67, pl. i, fig. 3; pl. iv, figs. 1, 3; pl. v; pl. vi, figs. 1-3; pl. vii, figs. 2, 3, 7; text-figs. 19, 23, 24, 26, 28, 29, 31, 34 (Diadectes); 9, 30, 65 (Nothodon).
1914 C, 213, figs. 1, 2.
1915 A, 105, 106, 108, 110, 134.
1921 A, 135.
Case and Williston 1912 A, 343.
Cope, E. D. 1878 LL, 482.
1880 U, 145 (Diadectes, Empedocles).
Cummins, W. F. 1908 A, 745.
Diener, C. 1909 A, 52.
Douthitt, H. 1917 A, 239.
Gadow, H. 1901 B, 308.
Gaudry, A. 1896 A, 118, fig. 96.
Gregory, W. K. 1910 B, 52, fig. 19.
1912 F, 524.

Gregory, W. K. 1913 B, 245.
1920 A, 121, fig. 30.
1926 A, 245.
Gregory and Noble 1924 A, 439, fig. 1.
Hanson, F. B. 1920 B, 336.
Heilprin, A. 1887 A, 154 (Diadectes, Empedocles).
Hoffmann, C. K. 1890 B, 1302.
Huene, F. 1910 B, 52, fig. 19.
1910 D, 314.
1911 F, 81.
1912 A, 74, 98.
1912 F, 524.
1913 B, 331, figs. 16 a, 18, 23, 24, 26, 29 (Diadectes); 375 (Nothodon).
Jaekel, O. 1916 A, 200.
Lakjer, T. 1927 A, 224, fig. 89.
Matthew, W. D. 1909 G, 94.
Mook, C. C. 1921 D, 101 (Nothodon).
Nopcsa, F. 1922 A, 109.
1923 E, 1047, fig. 9.
1923 H, 14, 18, 20-22, 40, 90, 153, 156, pl. iv, fig. 5.
1928 A, 164 (Diadectes, Nothodon).
Osborn, H. F. 1917 B, 187, fig. (Diadectes); 7, 8 (Empedocles).
Pompeckj, J. F. 1925 A, 23.
Romer, A. S. 1922 B, *passim*, pls. xxvii*a*-xxxi, xxxv, xxxvi, xxxviii*a*, xl-xlvi.
1924 A, 131, figs. 5, 10.
1925 B, 450, 453.
1927 B, 680.
1928 C, 257, 258.
Schuchert, C. 1910 A, 570.
Shaner, R. F. 1926 A, 362.
Stappenbeck, R. 1905 A, 385.
Steiner, H. 1922 A, 340.
Sushkin, P. P. 1927 A, 287, 307, figs. 19-22.
1928 A, 269.
Tornier, G. 1913 B, 340.
Versluys, J. 1912 B, 617, figs. a^2, b^2.
Watson, D. M. S. 1914 D, 166, 173.
1914 E, 746.
1914 G, 1004.
1916 C, 613, 630, figs. 5-7.
1917 B, 6.
1917 C, 171 (Diadectes, Nothodon).
1919 A, 295.
1926 A, 202, fig. 5.
Williston, S. W. 1910 F, 586.
1911 B, 16 (Nothodon).
1911 D, 379 (Nothodon).
1911 F, 662.
1912 B, 645.
1915 A, 578.
1916 A, 170.
1916 B, 213, figs. 56, 57.
1917 A, 315.
1918 B, 91.
1925 A, 31, 91, 112, 115, 124, 162, 167, 180, figs. 17, 22, 74, 95, 96.
1925 B, 215, 218.
Zittel and Broili 1911 A, 192.
1923 A, 229.

Diadectes biculminatus Cope.

Hay, O. P. 1902 A, 427.
Beede, J. W. 1907 A, 120.
Case, E. C. 1911 A, 17, pl. i, fig. 4.
1915 A, 97.
Cummins, W. F. 1908 A, 744.
Permian (Clear Fork); Texas.

Diadectes fissus Cope.

Hay, O. P. 1902 A, 427 (Empedias).
Beede, J. W. 1907 A, 119 (Empidens).
Broom, R. 1914 A, 110, 114.
Case, E. C. 1911 A, 17, pl. i, figs. 1, 2.
1915 A, 97.
Cope and Matthew 1915 A, pl. xix, figs. 5, 6 (This species?).
Cummins, W. F. 1908 A, 741 (Empedias).
Permian (Wichita); Texas.

Diadectes huenei Broom.

Broom, R. 1914 A, 110, figs. 2, 4.
Locality and level not given.

Diadectes latibuccatus Cope.

Hay, O. P. 1902 A, 427.
Beede, J. W. 1907 A, 118.
Broom, R. 1914 A, 110, 114.
Case, E. C. 1911 A, 19, text-fig. 2.
1915 A, 97.
Cummins, W. F. 1908 A, 743.
Permian (Wichita); Texas.

Diadectes lentus Marsh.

Hay, O. P. 1902 A, 428 (Nothodon).
Broom, R. 1914 A, 110, 114.
Case, E. C. 1911 A, 30, text-fig. 7 (Nothodon).
1915 A, 97 [Diadectes (Nothodon)].
Case and Williston 1912 A, 339, figs. 1, 2.
1913 B, 18.
Huene, F. 1913 B, 334, fig. 19 (Nothodon. This species?).
Romer, A. S. 1925 B, 451.
Williston, S. W. 1911 B, 16, pl. xxxiv, figs. 5-7; pl. xxxv, figs. 1-4; pl. xxxvi, fig. 2; text-figs. 1, 2 (Nothodon).
1925 A, 117, fig. 93 (Nothodon).
Williston and Case 1913 A, 6 (Diadectes).
Permian; New Mexico.

Diadectes maximus Case.

Case, E. C. 1910 A, 174.
1911 A, 20, text-fig. 3.
1915 A, 97 (Nothodon); 157 (Diadectes).
Permian (Wichita?, Clear Fork?); Texas: (Enid); Oklahoma.

Diadectes molaris Cope.

Hay, O. P. 1902 A, 427 (Empedias).
Beede, J. W. 1907 A, 119 (Empedocles).
Broom, R. 1914 A, 109, 110, fig. 3.
Case, E. C. 1911 A, 15, pl. i, fig. 5; text-fig. 1.
1915 A, 97.
Cope and Matthew 1915 A, pl. xix, figs. 1-4 (Empedocles, Diadectes).
Cummins, W. F. 1908 A, 743 (Empedias).
Gadow, H. 1901 B, 308 (Empedias).
Huene, F. 1913 B, 331, figs. 15, 16b, 17, 20, 21.
Perrier, E. 1920 A, 308 (Emepedias).
Permian (Wichita); Texas.

Diadectes phaseolinus Cope.

Hay, O. P. 1902 A, 427.

Abel, O. 1912 F, 529, figs. 400-402.
1919 A, 338, figs. 258-260.
1920 A, 358, fig. 563.
Beede, J. W. 1907 A, 119.
Broili, F. 1912 A, 153.
Broom, R. 1910 A, 216, figs. 11, 12.
1914 A, 109, 110.
Case, E. C. 1910 A, 163, text-figs. 1-6.
1911 A, 15, 84, pl. i, fig. 6; pls. ii, iii, fig. 2; pl. vi, figs. 4-9; pl. vii, fig. 1; pl. viii, fig. 1; pl. xiv; text-figs. 20, 22, 25, 27, 30.
1912 B, 681.
1915 A, 97, 134, pl. xx, fig. 3.
Case and Williston 1912 A, 340.
1913 B, 18, 21.
Cummins, W. F. 1908 A, 743, 745.
Heilmann, G. 1914 A, 74.
Hilzheimer, M. 1913 A, 516.
Huene, F. 1913 B, 331, figs. 22, 25.
Romer, A. S. 1925 B, 459.
Permian (Wichita, Clear Fork); Texas: (Enid); Oklahoma.

Diadectes sideropelicus Cope.

Hay, O. P. 1902 A, 427.
Beede, J. W. 1907 A, 118.
Case, E. C. 1911 A, 14.
1915 A, 97.
Cummins, W. F. 1908 A, 744.
Permian (Wichita); Texas.

Diadectes sp. indet.

Phillips, W. B. 1912 A, 41. Permian (Wichita); Texas.
Wegeman, C. H. 1915 A, 26, 27. Permian (Wichita); Oklahoma.

EMPEDIAS Cope. Type *E. alatus* Cope.

Hay, O. P. 1902 A, 427.
Broili, F. 1904 A, 100.
1904 D, 581.
Broom, R. 1903 D, 286, 292.
1908 A, 1050.
Case, E. C. 1907 D, 557.
1908 B, 237, fig. 5.
1911 A, 13.
Case and Williston 1912 A, 344.
Cummins, W. F. 1908 A, 745.
Huene, F. 1912 A, 98.
Jaekel, O. 1911 A, 123.
Mivart, St. G. 1888 A, 373.
Schuchert, C. 1910 A, 570.
Stappenbeck, R. 1905 A, 428.
Versluys, J. 1912 B, 564, 617.
Williston, S. W. 1904 B, 180.
Zittel and Broili 1923 A, 229 (Syn. of Diadectes).
Zittel, Eastman, etc. 1902 A, 182.
Apparently an unidentifiable genus.

Empedias alatus Cope.

Hay, O. P. 1902 A, 427.
Beede, J. W. 1907 A, 119.
Case, E. C. 1911 A, 18.
Cummins, W. F. 1908 A, 740.
Permian; Texas.

BOLBODON Cope. Type *B. tenuitectus* Cope.

Hay, O. P. 1902 A, 427.
Broili, F. 1904 A, 100.
Case, E. C. 1905 B, 128.
1908 B, 236, text-fig. 5.
1911 A, 9, 22, 64, text-fig. 34.
1915 A, 134.
Cummins, W. F. 1908 A, 745.
Nopcsa, F. 1923 H, 18.
1928 A, 164.
Schuchert, C. 1910 A, 570.
Stappenbeck, R. 1905 A, 429.
Williston, S. W. 1916 B, 214.
1925 B, 218

Bolbodon tenuitectus Cope.

Hay, O. P. 1902 A, 427.
Beede, J. W. 1907 A, 120.
Case, E. C. 1911 A, 22, 87, pl. x, fig. 1; text-fig. 33.
1915 A, 97.
Cummins, W. F. 1908 A, 744.
Huene, F. 1913 B, 334, fig. 30.
Permian (Clear Fork); Texas.

CHILONYX Cope. Type *Bolosaurus rapidens* Cope.

Hay, O. P. 1902 A, 427.
Arldt, T. 1908 A, 571.
Broili, F. 1904 A, 100 (Chilonix).
Broom, R. 1903 D, 292.
1903 E, 135.
Case, E. C. 1905 B, 128.
1911 A, 9, 23, 65, pl. x, fig. 2; text-figs. 5, 32.
1915 A, 111, 134, 135.
Case and Williston 1913 B, 27.
Cummins, W. F. 1908 A, 745.
Nopcsa, F. 1923 H, 18.
1928 A, 164.
Osborn, H. F. 1917 B, 187.
Schuchert, C. 1910 A, 570.
Stappenbeck, R. 1905 A, 429.
Watson, D. M. S. 1917 C, 171.
Williston, S. W. 1915 A, 578.
1916 B, 214.
1925 A, 9.
1925 B, 218.

Chilonyx rapidens Cope.

Hay, O. P. 1902 A, 428.
Beede, J. W. 1907 A, 118, 119.
Broom, R. 1914 A, 110, fig. 1.
Case, E. C. 1911 A, 24, 86, text-fig. 32.
1915 A, 98.
Cummins, W. F. 1908 A, 742.
Huene, F. 1913 B, 345, fig. 31.
Permian (Wichita?, Clear Fork?); Texas.

ANIMASAURUS Case and Williston. Type *A. carinatus* Case and Williston.

Case and Williston 1912 A, 345.
Case, E. C. 1915 A, 135.
Nopcsa, F. 1923 H, 18, 55, 188.
1928 A, 164.
Watson, D. M. S. 1917 C, 171.
Williston, S. W. 1915 A, 578.
1916 B, 214.

Animasaurus carinatus Case and Williston.

Case and Williston 1912 A, 345, fig. 3.
Broom, R. 1914 A, 114.
Case, E. C. 1915 A, 97.
Case and Williston 1913 B, 18.
Williston and Case 1913 A, 6.
Permian; New Mexico.

DIASPARACTUS Case. Type *D. zenos* Case.

Case, E. C. 1910 A, 174.
1911 A, 9, 21, 64.
1915 A, 135.
Eastman, C. R. 1913 B, 678.
Nopcsa, F. 1923 H, 18, 40, 139, pl. vi, fig. 2*a* (Disparactus).
1928 A, 18, 40 (Disparactus).
Watson, D. M. S. 1917 C, 171.
Williston, S. W. 1911 D, 379.
1912 A, 463.
1914 C, 63.
1914 E, 121.
1915 A, 578.
1916 B, 213, fig. 58.
Williston, S. W. 1925 B, 217, 218, fig. 162.
Zittel and Broili 1923 A, 229.

Diasparactus zenos Case.

Case, E. C. 1910 A, 174, text-fig. 7.
Abel, O. 1919 A, 341, fig. 261.
Case, E. C. 1911 A, 21, 97, text-fig. 4.
1915 A, 97.
Case and Williston 1913 B, 17, figs. 8-22.
Williston, S. W. 1914 C, 63, fig. 5 (D. xenos).
Williston and Case 1913 A, 6.
Zittel and Broili 1923 A, 229, fig. 332.
Permian; New Mexico.

DESMATODON Case. Type *D. hollandi* Case.

Case, E. C. 1908 B, 236, text-fig. 5.
1911 A, 9, 26, 65, text-fig. 34.
1915 A, 102, 134.
Nopcsa, F. 1923 H, 18.
1928 A, 164.
Romer, A. S. 1925 B, 452.
Watson, D. M. S. 1917 C, 171.
Williston, S. W. 1916 B, 214.
1925 B, 218.

Desmatodon hollandi Case.

Case, E. C. 1908 B, 236, pl. lix, fig. 1; text-fig. 4.
1911 A, 26, 88, pl. viii, figs. 2, 3; text-fig. 33.
1915 A, 98.
Pennsylvanian (Upper); Pennsylvania.

DIADECTOIDES Case. Type *D. cretin* Case.

Case, E. C. 1911 A, 9, 26, 65.
1915 A, 134, 135.
Case and Williston 1913 A, 27.
Nopcsa, F. 1928 A, 164.
Romer, A. S. 1922 B, 560.
Watson, D. M. S. 1917 C, 171.
Williston, S. W. 1915 A, 578.
1916 B, 214.
Williston, S. W. 1925 B, 215, 218.
Zittel and Broili 1923 A, 230.

Diadectoides cretin Case.

Case, E. C. 1911 A, 26, text-fig. 6.
1915 A, 98, 135.
Permian (Clear Fork); Texas.

PROCOLOPHONIDÆ Nicholson and Lydekker.

Nicholson and Lydekker 1889 A, 1065.
Case, E. C. 1928 B, 177.
Lydekker, R. 1890 A, 13.
Nopcsa, F. 1923 H, 207.
Owen, R. 1876, Cat. Foss. Rept. S. Africa, 25, pl. xx (Procolophon).
Woodward, A. S. 1898 B, 148, fig. 94 (Procolophon).
Zittel, K. A. 1890 A (1889), 581 (Procolophon).
Zittel and Broili 1923 A, 230.

TRILOPHOSAURUS Case. Type *T. buettneri* Case.

Case, E. C. 1928 B, 177.

Trilophosaurus buettneri Case.

Case, E. C. 1928 B, 177, fig. 1.
Upper Triassic; Texas.

BOLOSAURIDÆ Cope.

Hay, O. P. 1902 A, 434.
Abel, O. 1919 A, 349.
Arldt, T. 1908 A, 585.
Arldt, T. 1912 A, 656.
Broili, F. 1904 A, 103.
Broom, R. 1913 D, 512.

Case, E. C. 1907 A, 653.
1911 A, 9, 28, 64, 65.
1915 A, 98, 102.
Huene, F. 1913 B, 375.
Lydekker, R. 1914 A, 649.
Nopcsa, F. 1928 A, 171.
Watson, D. M. S. 1917 C, 174, 184.
Williston, S. W. 1913 C, 745.
1914 D, 377.
1916 B, 214.
1925 B, 218.

BOLOSAURUS Cope. Type *B. striatus* Cope.

Hay, O. P. 1902 A, 434.
Abel, O. 1919 A, 349.
Broili, F. 1904 A, 103.
Broom, R. 1913 D, 509.
Case, E. C. 1908 B, 237, text-fig. 5.
1911 A, 9, 29, 65, text-figs. 34, 35.
1915 A, 102, 136.
Cope, E. D. 1878 LL, 482.
1880 U, 145.
Cummins, W. F. 1908 A, 745.
Gregory, W. K. 1920 A, 230.
Huene, F. 1913 B, 353, 375.
1926 F, 471.
Lakjer, T. 1927 A, 225.
Lydekker, R. 1914 A, 649.
Nopcsa, F. 1922 A, 109.
1923 H, 18.
1928 A, 171.
Schuchert, C. 1910 A, 570.
Versluys, J. 1912 B, 585, fig. C.
1919 A, 11.
Watson, D. M. S. 1917 C, 175.
Williston, S. W. 1913 A, 826.
1913 C, 745.
1914 D, 377.
Zittel and Broili 1911 A, 192.
1923 A, 235.

Bolosaurus major Broom.

Broom, R. 1913 D, 510.
Permian; Texas.

Bolosaurus striatus Cope.

Hay, O. P. 1902 A, 434.
Beede, J. W. 1907 A, 118.
Broom, R. 1913 D, 509, 510, figs. 1, 4.
Case, E. C. 1907 A, 654, pl. xlviii; text-figs. 1-5.
1911 A, 29, 89, pl. vii, figs. 4-6.
1915 A, 98, 157.
Huene, F. 1913 B, 353.
Versluys, J. 1919 A, 9, fig. 6.
Williston, S. W. 1913 C, 746.
1914 D, 377.
Permian (Wichita, Brier Creek); Texas.

OPHIODEIRUS Broom. Type *O. casei* Broom.

Broom, R. 1913 D, 510.
Case, E. C. 1915 A, 102 (Ophideirus).
Watson, D. M. S. 1914 G, 1005.
Williston, S. W. 1913 A, 825.
1913 C, 746.
1914 D, 377.

Ophiodeirus casei Broom.

Broom, R. 1913 D, 510, figs. 2, 3.
Case, E. C. 1915 A, 98.
Williston, S. W. 1914 D, 377 (Syn. of Aræoscelis gracilis).
Permian (Wichita); Texas.

Suborder PAREIASAURIIFORMES, new name.

Unless otherwise indicated the writers, as cited, use for this order the name Pareiasauria.
Hay, O. P. 1902 A, 426 (Cotylosauria, in part).
Arldt, T. 1907 D, 671 (Pareiosauria).
1908 A, 571, 585.
1916 A, 101 ("pareiasaurier").
Beddard, F. E. 1902 A, 91 (Pareiasauri).
Boulenger, G. A. 1904 C, 476, 480 (Pariosauria).
1917 C, 456 ("paréiosauriens").
Broom, R. 1901 A, 185 ("pariasaurians").
1903 D, 286, 292.
1903 I, 554.
1905 B, 213.
1908 A, 1048.
1909 C, 136.
1912 C, 323 ("pareiasaurian").
1913 I, 353 (Pareiasaurus).
1913 J, 361.
1924 B, 64, fig. 13.
Case, E. C. 1911 A, 9, 33, 63, 64.
1915 A, 98.
Du Toit, P. G. 1911 A, 417.
Gadow, H. 1901 B, 304 (Pareiasauri).
Goodrich, E. S. 1916 A, 263.
Gregory, W. K. 1910 A, 115.
1920 A, 120, 229, figs. 28, 35 (Pariasauria); 228 (Captorhinomorpha, Seymouriomorpha).
1926 A, 185
Haughton, S. H. 1920 A, 12.
Howes and Swinnerton 1901 A, 3.
Huene, F. 1910 D, 313 ("pareiasaurier").
1911 D, 44 ("pareiasaurier").
1913 B, 376.
Jaekel, O. 1904 C, 188.
1905 B, 62.
1909 B, 613.
1911 A, 122 (Pareiasauri).
Lydekker, R. 1912 C, 4.
Nopcsa, F. 1923 E, 1049.
1923 H, 5, 99.
1928 A, 164 (Pareiasauroidea).
Osborn, H. F. 1899 J, 415.
1903 H, 453 (Syn. of Cotylosauria).
1917 B, 185, 191.
Perrier, E. 1920 A, 307 ("paréiasauriens").
Pompeckj, J. F. 1925 A, 22 ("pareiasaurier").
Ridewood, W. G. 1897 D, 195 (Pariasaurus).

Romer, A. S. 1922 B, 523, 588.
Seeley, H. G. 1887 D, 340.
1889 A, 181 (Pareiosauria).
1905 A, 220.
Stappenbeck, R. 1905 A, 427 ("pareiasaurier").
Sushkin, P. P. 1927 A, 312, 319 ("pareiasaurians").
Watson, D. M. S. 1917 C, 171 (Pariasauria); 172 (Capitorhinomorpha).
Williston, S. W. 1908 B, 400.
1909 A, 393 ("pareiasaurs").
1916 B, 199.
1925 B, 210, 215, 220 (Pariasauria).
Woodward, A. S. 1922 C, 30 (Pariasauria).
Zittel and Broili 1923 A, 225.
Zittel, Eastman, etc. 1902 A, 180.

PAREIASAURIDÆ Lydekker.

Lydekker, R. in Nicholson and Lydekker 1889 A, 1055 (Pariasauridæ).
Hay, O. P. 1902 A, 429.
Abel, O. 1919 A, 348.
Amalitzky, V. P. 1922 A, 334.
Arldt, T. 1907 D, 180, 335 (Pareiosauridæ).
1912 A, 662.
Boulenger, G. A. 1917 C, 456 ("paréiosauriens").
Broili, F. 1904 A, 66, 68, 99.
Broom, R. 1916 B, 347.
Case, E. C. 1926 B, 193.
Cope, E. D. 1896 G, 439, 440 (Pariasauridæ).
Fuchs, H. 1909 B, 121.
Lancaster, E. R. 1905 A, 210, figs. 151, 157, 158 (Pariasaurus).
Lydekker, R. 1890 A, 112 (Pariasauridæ).
1915 C, 636 (Pareiasaurus).
Nopcsa, F. 1923 E, 1053.
1923 H, 18, 21, 121, 151 (Pareiasauridæ, Pareiasaurinæ).
1928 A, 164 (Pareiasauridae, Pareiasaurinæ).
Steinmann, G. 1907 A, 444 (Pareiosauria).
Sushkin, P. P. 1927 A, 309 ("pareiasaurians").
Tornier, G. 1913 B, 339, figs. 1, 2.
Versluys, J. 1912 B, 612.
Watson, D. M. S. 1912 B, 429, fig. 5 (Pariasaurus).
1914 L, 98 ("pariasaurians").
1917 B, 6.
1917 C, 172.
1919 A, 295 (Pariasauridæ).
Williston, S. W. 1925 A, 140 (Pariasauridæ).
1925 B, 220 (Pariasauria).
Zittel and Broili 1911 A, 189.
1923 A, 227.
Zittel, Eastman, etc. 1902 A, 180.

PAREIASAURUS Owen.

Owen, R. 1876, Cat. Foss. Rept. S. Africa, 6.
Abel, O. 1909 F, 457.
1920 A, 360, fig. 566.
1922 C, 574, fig. 480.
Amalitzky, V. 1922 A, 334, figs. 8, 9.
1924 A, 58.
1924 B, 74.
Boas, J. E. V. 1914 C, 259.
Boulenger, G. A. 1917 C, 458 (Pariosaurus).
Broili, F. 1904 D, 580.
1908 C, 65.
1912 B, 421.
Broom, R. 1899 A, 766.
1902 D, 554.
1903 E, 123, pls. xv, xvi.
1903 G, 145.
1904 B, 92.
1905 F, 40.
1906 C, 437.
1907 A, 35.
1907 C, 796.
1908 B, 351.
1909 E, 402.
1910 C, 475.
1913 G, 339.
1913 L, 236.
1914 G, 304.
1915 C, 22.
1916 B, 347.
1922 A, 18, fig. 1.
1924 A, 499, figs. 1-6.
1925 A, 15.
1926 A, 263.
Broom and Haughton 1913 A, 17.
1913 B, 26.
Case, E. C. 1926 B, 193.
Du Toit, P. J. 1911 A, 417.
Gregory, W. K. 1926 A, 225.
Haughton, S. H. 1920 A, 1, figs. 1-4.
Hennig, E. 1924 A, 144.
Huene, F. 1902 A, 14 (Pareiosaurus).
1909 D, 336, fig. 12.
1911 F, 83.
1912 A, 98.
Hutchinson, H. N. 1910 A, 116, pl. xii.
Kingsley, J. S. 1925 A, 253, fig. 268.
Lakjer, T. 1927 A, 224, figs. 87, 88.
Nopcsa, F. 1922 A, 109.
1923 H, 12-14, 17-21, 157, 197.
1928 A, 164.
Owen, R. 1876 D, 6, pls. vi-xii.
1876 E, 43.
Reynolds, S. H. 1897 A, 273, 283, 289, 292 (Pariasaurus).
Romer, A. S. 1928 C, 258.
Schmalhausen, J. 1917 A, 96, 107, fig. *m*.
Seeley, H. G. 1887 D, 337 (Parieasaurus).
1895 D, 1, pl. i.
1896 B, 184.
1899 A, 181 (Pareiosaurus).
1908 C, 605.
Stappenbeck, R. 1905 A, 400, 403.
Sushkin, P. P. 1927 A, 287, 293, figs. 23-26.
Thevenin, A. 1910 A, 41.
Versluys, J. 1912 B, 564, 574, 612.
Watson, D. M. S. 1910 A, 582.
1914 D, 155 (Pariasaurus).
1914 L, 100 (Pariasaurus).
1916 C, 633 (Pariasaurus).
1917 C, 172.

Hay, O. P. 1919 A, 286 (Pariasaurus).
Williston, S. W. 1917 A, 320.
1925 A, 162, 187, 197, 198, 200 (Pariasaurus).
Woodward, A. S. 1898 B, 145, figs. 92, 93 (Pariasaurus).
1922 C, 30, pl. iv (Pariasaurus).
Zittel and Broili 1911 A, 191, fig. 325.
1923 A, 226, figs. 326, 327.

Pareiasaurus? henneni White.

White, I. C. 1917 A, 822.
Case, E. C. 1917 B, 817 ("Pareiasaurus-like reptile"); pls. xxviii, xxix (P.? henneni).
1918 A, 504 ("Pareiasaurus").
Tilton, J. L. 1926 B, 387.
White, I. C. 1909 A, 194 ("pareiasaurian").
Permo-Carboniferous (Conemaugh); West Virginia.

Suborder CAPTORHINIFORMES, new name.

Romer, A. S. 1922 B, 523, 543, 587 (Captorhinomorpha).
1925 A, 181, 182 (Captorhinomorpha).
Sushkin, P. P. 1927 A, 313, 319 ("captorhinomorphs").
Watson, D. M. S. 1917 C, 172 (Capitorhinomorpha).
1919 A, 286 (Captorhinomorpha).

CAPTORHINIDÆ Case.

Case, E. C. 1911 A, 9, 38, 64, 65.
Abel, O. 1919 A, 346.
Arldt, T. 1912 A, 656.
Broili, F. 1924 A, 9.
Case, E. C. 1915 A, 98, 102 (Captorhinidæ, Labidosauridæ).
1926 B, 193.
Case and Williston 1913 B, 22.
Huene, F. 1913 B, 376.
1922 E, 24.
Jaekel, O. 1915 A, 126 ("labidosauriden").
Lakjer, T. 1927 A, 240.
Lull, R. S. 1924 A, chart (Cotylosauridæ).
Nopcsa, F. 1923 H, 23, 121, 151.
1928 A, 164.
Sushkin, P. P. 1928 A, 279.
Versluys, J. 1912 B, 681, 687.
Watson, D. M. S. 1914 A, 308.
1914 G, 1003.
1916 A, 346.
1917 B, 5.
1917 C, 172 (Captorhinidæ, Captorhiinæ).
1919 A, 296 ("captorhinids").
1921 B, 75 ("captorhinids").
Williston, S. W. 1914 A, 16, 45.
1916 B, 195 (Labidosauria); 219 (Captorhinidæ).
1917 A, 321.
1925 A, 119.
1925 B, 218.
Zittel and Broili 1923 A, 228, 231.

CAPTORHINUS Cope. Type *C. angusticeps* Cope.

Hay, O. P. 1902 A, 429.
Abel, O. 1919 A, 347.
Broili, F. 1904 A, 101.
Broom, R. 1910 C, 474.
1915 C, 8.
1922 A, 19.
1925 A, 15.
Broom and Haughton 1913 A, 19.
Case, E. C. 1910 C, 194, 195.
1911 A, 9, 38, 40, 65, 93, 98, 100, text-figs. 43, 45.
1915 A, 105, 136, text-fig. 21.
Eastman, C. R. 1912 C, 657.
Gregory, W. K. 1913 B, 242.
1922 A, 13, 506, 518.
Huene, F. 1912 A, 98.
1912 F, 524.
1913 B, 376.
1925 I, 249.
Lakjer, T. 1927 A, 224, figs. 86, 119.
Nopcsa, F. 1923 H, 21, 23, 157.
1928 A, 164.
Romer, A. S. 1927 B, 680.
1928 C, 255, 258.
Stappenbeck, R. 1905 A, 431.
Sushkin, P. P. 1925 A, 180.
1927 A, 289, fig. 36.
1928 A, 263, figs. 8, 9.
Versluys, J. 1912 B, 610, fig. v^1.
Watson, D. M. S. 1914 A, 308.
1914 D, 171.
1914 G, 996, 1004.
1916 A, 346.
1916 C, 623, 635, fig. 8.
1919 A, 286, 296, fig. 15.
Williston, S. W. 1909 C, 253.
1910 A, 272.
1911 D, 54, 68.
1914 A, 49, fig. 26.
1914 D, 413.
1914 E, 121.
1915 A, 575, 578.
1916 A, 165, 172, 186.
1916 B, 219, fig. 64.
1917 A, 311.
1925 B, 218.
Zittel and Broili 1923 A, 228.

Captorhinus aduncus (Cope).

Hay, O. P. 1902 A, 428 (Pariotichus).
Beede, J. W. 1907 A, 120 (Pariotichus).
Broili, F. 1904 A, 86 (Pariotichus).
Case, E. C. 1911 A, 40, 44.
1915 A, 98.
Williston, S. W. 1909 C, 255 (Pariotichus).
Permian (Clear Fork); Texas.

Captorhinus aguti (Cope).

Hay, O. P. 1902 A, 428 (Pariotichus).
Abel, O. 1919 A, 346, fig. 266 (Pariotichus).
Beede, J. W. 1907 A, 119 (Pariotichus).
Branson, E. B. 1911 A, 135, pl. i, figs. 1, 2 (Pariotichus).
Broili, F. 1904 A, 85 (Pariotichus).
Broom, R. 1922 A, 18, fig. 1.
Case, E. C. 1911 A, 40, 41, pl. xi, fig. 3; text-fig. 38.
1915 A, 98.
Cummins, W. F. 1908 A, 743 (Pariotichus).
Huene, F. 1910 B, 52, fig. 18 (Pariotichus).
Sushkin, P. P. 1927 A, 290, figs. 17, 18.
1928 A, 263, figs. 2, 3, 6, 7, 10.
Thyng, F. W. 1906 A, 48, fig. E (Pariotichus).
Williston, S. W. 1909 C, 255 (Pariotichus).
1914 D, 415, fig. 16.
1925 A, 39, fig. 25.
Permian (Clear Fork); Texas.

Captorhinus angusticeps Cope.

Hay, O. P. 1902 A, 429.
Broom, R. 1910 A, 218, figs. 13, 14 (Pariotichus).
Case, E. C. 1910 C, 194, text-fig. 5.
1911 A, 38, 40, 93, pl. xi, fig. 1; text-figs. 39, 42.
1915 A, 98.
Cummins, W. F. 1908 A, 743.
Gregory, W. K. 1922 A, 13, fig. 7.
Huene, F. 1912 F, 523, fig. 4.
1913 B, 347, figs. 32-35.
Sushkin, P. P. 1928 A, 264.
Permian (Clear Fork); Texas: (Enid?); Oklahoma.

Captorhinus illinoiensis Williston.

Williston, S. W. 1911 B, 69, pl. xxiv, figs. 5-7.
Case, E. C. 1915 A, 98, 169.
Pennsylvanian (Upper); Illinois.

Captorhinus isolomus (Cope).

Hay, O. P. 1902 A, 428 (Pariotichus).
Beede, J. W. 1907 A, 119 (Pariotichus).
Broili, F. 1904 A, 85, 86 (Pariotichus).
Case, E. C. 1911 A, 40, 43, 94, 99, pl. xi, fig. 2; text-figs. 40, 41, 44.
1915 A, 98.
Cummins, W. F. 1908 A, 744 (Pariotichus).
Huene, F. 1913 B, 347 (Syn. of Pariotichus incicivus).
Sushkin, P. P. 1927 A, 290, 304, fig. 35.
1928 A, 263, figs. 1, 5.
Williston, S. W. 1909 C, 255 (Pariotichus).
Permian (Clear Fork); Texas.

Captorhinus sp. indet.

Watson, D. M. S. 1919 A, 298, fig. 15.
Williston, S. W. 1911 B, 68, pl. xxx, figs. 6, 7 (This genus?).

HYPOPNOUS Cope. Type *H. squaliceps* Cope.

Hay, O. P. 1902 A, 429.
Broili, F. 1904 A, 101.
Broom, R. 1903 D, 292.
Case, E. C. 1911 A, 48 (Syn.? of Captorhinus).
Cummins, W. F. 1908 A, 745.
Schuchert, C. 1910 A, 570.
Stappenbeck, R. 1905 A, 431.
Williston, S. W. 1909 C, 253.

Hypopnous squaliceps Cope.

Hay, O. P. 1902 A, 429.
Beede, J. W. 1907 A, 120.
Case, E. C. 1911 A, 47, text-fig. 11.
Cummins, W. F. 1908 A, 744.
Type of the species is the larger skull of Case's figure.
Permian (Clear Fork); Texas.

PLEURISTION Case. Type *P. brachycœlus* Case.

Case, E. C. 1902 B, 63, 67.
Arldt, T. 1912 A, 656.
Case, E. C. 1911 B, 14.
Mehl, M. G. 1912 C, 409.
Nopcsa, F. 1923 H, 54.
Romer, A. S. 1922 B, 557.
Schuchert, C. 1910 A, 570.
Williston, S. W. 1910 F, 589.
1916 B, 221.
1925 B, 218.

Pleuristion brachycœlus Case.

Case, E. C. 1902 B, 63, 67.
Beede, J. W. 1907 A, 139.
Case, E. C. 1907 E, 29, pl. i, figs. 14, 15.
1915 A, 98.
Huene, F. 1925 I, 249, text-fig. 28.
Williston, S. W. 1910 F, 600, pl. i, figs. 1, 2.
Permian (Enid); Oklahoma.

LABIDOSAURUS Cope. Type *Pariotichus hamatus* Cope.

Hay, O. P. 1902 A, 429.
Abel, O. 1909 F, 455.
1919 A, 347.
Adams, L. A. 1919 A, 130, pl. xiii.
Amalitsky, V. P. 1921 B, 9.
1924 B, 66, 67.
Arldt, T. 1908 A, 571.
Boas, J. E. V. 1914 C, 262.
Boulenger, G. A. 1917 C, 457, 458.
1918 E, 516.
Branson, E. B. 1911 A, 136.
Broili, F. 1904 A, 51, 64.
1904 C, 273.
1904 D, 579.
1905 A, 15.
1908 C, 66.
1912 A, 150.
1927 A, 186.
Broom, R. 1908 A, 1050, 1058, 1059.
1922 A, 18.

Case, E. C. 1910 C, 194.
1911 A, 9, 45, 65, 101, 102, 108-111, pl. viii, figs. 4-8; text-figs. 46-50.
1915 A, 105, 137.
1924 B, 6.
Cummins, W. F. 1908 A, 745.
Fuchs, H. 1909 B, 121.
Gregory, W. K. 1913 E, 28.
1920 A, 121, fig. 31.
Huene, F. 1910 B, 58.
1910 D, 314.
1912 A, 79, 98, fig. 11.
1912 F, 524.
1913 B, 349, 351, 376.
1916 A, 63.
Jaekel, O. 1909 B, 610, fig. 18.
Lakjer, T. 1927 A, 224.
Moodie, R. L. 1909 B, 14.
Nopcsa, F. 1922 A, 109.
1923 E, 1047, fig. 8.
1923 H, 12, 14, 21, 22, 156, 157, 160, pl. i, fig. 2.
1928 A, 164.
Osborn, H. F. 1917 B, 187, fig.
Romer, A. S. 1928 C, 257, 258.
Schuchert, C. 1910 A, 570.
Stappenbeck, R. 1905 A, 387, 401, 403.
Steiner, H. 1922 A, 340.
Sternberg, C. H. 1909 C, 257.
1917 A, 192.
Sushkin, P. P. 1927 A, 289.
1928 A, 276.
Thevenin, A. 1910 A, 41.
Tornier, G. 1913 B, 339.
Versluys, J. 1912 A, 500.
1912 B, 564, 607.
1919 A, 4, fig. 1.
Watson, D. M. S. 1914 A, 308.
1914 D, 166.
1914 E, 744, 746.
1914 H, 1011.
1914 M, 348.
1916 A, 346.
1916 C, 623.
1919 A, 286.
Williston, S. W. 1908 A, 140.
1909 C, 247, 251, fig. 4.
1910 A, 272.
1910 B, 69, pls. i-iii.
1910 D, 530.
1911 A, 237.
1911 B, 32, 142, pl. xxiv, figs. 8-10.
1911 F, 662.
1913 B, 625.
1914 A, 22, figs. 6, 10, 27.
1914 D, 413.
1915 A, 578.
1916 A, 172, 186.
1916 B, 221, fig. 65.
1917 A, 309, figs. 2-9.
1925 A, 26, 183.
1925 B, 215, 217, 218, fig. 163.
Zittel and Broili 1911 A, 190.
1923 A, 228.

Labidosaurus broilii Case.

Case, E. C. 1911 A, 47.
1915 A, 98.
Williston, S. W. 1917 A, 313.
Permian (Clear Fork); Texas.

Labidosaurus hamatus Cope.

Hay, O. P. 1902 A, 429.
Abel, O. 1919 A, 348, fig. 268.
Arldt, T. 1908 A, 571.
Beede, J. W. 1907 A, 120.
Broili, F. 1904 A, 51, pl. vii, fig. 1; pls. viii, ix; pl. x, fig. 1; text-fig. 3.
1904 D, 584, figs. 6, 10, 11.
1905 A, 16.
1908 A, 9.
1908 C, 63, pl. iii.
1924 A, 9.
Case, E. C. 1911 A, 46, pl. xii.
1915 A, 98, 137, text-fig. 22.
Cummins, W. F. 1908 A, 743.
Huene, F. 1905 A, 352, fig. 44.
1913 B, 352, figs. 36, 37.
Jaekel, O. 1911 A, 125, fig. 40.
Moodie, R. L. 1909 C, 121.
Sternberg, C. H. 1909 C, 253.
Tornier, G. 1913 B, 339, figs. 3, 8.
Versluys, J. 1912 B, 573, figs. z, j^1, t^1.
Williston, S. W. 1909 C, 246.
1910 B, 72.
1911 B, 31, text-fig. 7.
1914 C, 65, fig. 7.
1914 D, 414, fig. 15.
1917 A, 311.
1925 A, 22, 30, 39, figs. 8, 9, 16, 27, 28, 29.
Zittel and Broili 1911 A, 190, figs. 321-323.
1923 A, 228, figs. 329, 330, 331.
Permian (Clear Fork); Texas: (Enid); Oklahoma.

Labidosaurus incisivus (Cope).

Hay, O. P. 1902 A, 428 (Pariotichus).
Beede, J. W. 1907 A, 120 (Pariotichus).
Broili, F. 1904 A, 85 (Pariotichus).
Case, E. C. 1900 A, 720 (Pariotichus).
Cummins, W. F. 1908 A, 744 (Pariotichus).
Gould, C. N. 1901 A, 339 (Pariotichus incisivorus.)
Huene, F. 1910 B, 57, fig. 24.
1910 D, 313, fig. 18.
1911 D, 51.
1912 A, 80, fig. 14.
Lydekker, R. 1909 C, 469.
Moodie, R. L. 1909 C, 121.
Osborn, H. F. 1918 D, 685.
Sushkin, P. P. 1928 A, 262 (Syn. of Captorhinus aguti).
Williston, S. W. 1902 N, 60 (Pariotichus incisivorus).
1908 A, 141, text-figs. 1-6 (Labidosaurus).
1908 D, 239, text-fig. 5.
1909 C, 255.
1917 A, 311, fig. 1.
Permian; Texas.

HELODECTES Cope. Type *H. paridens* Cope.

Hay, O. P. 1902 A, 429.
Broili, F. 1904 A, 101.
Case, E. C. 1911 A, 9, 48.
Nopcsa, F. 1923 H, 21.
Williston, S. W. 1909 C, 253.
1916 B, 222.
1925 B, 218.

Helodectes isaaci Cope.

Hay, O. P. 1902 A, 429.
Beede, J. W. 1907 A, 120.
Case, E. C. 1911 A, 48.
1915 A, 98.
Permian (Wichita?, Clear Fork?); Texas.

Helodectes paridens Cope.

Hay, O. P. 1902 A, 429.
Beede, J. W. 1907 A, 119.
Case, E. C. 1911 A, 49, text-fig. 12.
1915 A, 98.
Cummins, W. F. 1908 A, 744 (H. pandius).
Permian (Clear Fork); Texas.

PARIOTICHIDÆ Cope.

Hay, O. P. 1902 A, 428.
Abel, O. 1919 A, 346.
Arldt, T. 1907 D, 671 (Pariotychidæ).
1908 A, 585.
1912 A, 656.
Boulenger, G. A. 1904 C, 478, 479.
Broili, F. 1904 A, 62, 66, 69, 101.
Broom, R. 1903 D, 292.
1908 A, 1050.
Case, E. C. 1908 C, 578.
1909 A, 195.
1911 A, 9, 33, 64, 65.
1915 A, 98.
Fuchs, H. 1909 B, 121.
1920 A, 363.
Gregory, W. K. 1910 A, 115.
Stappenbeck, R. 1905 A, 387 ("pariotichiden").
Stromer, E. 1912 A, 108.
Tornier, G. 1913 B, 340.
Versluys, J. 1912 B, 681.
Watson, D. M. S. 1917 C, 172.
Williston, S. W. 1909 E, 194 ("Pariotichus group").
1911 B, 68.
1911 C, 631.
1911 D, 379.
1916 B, 219.
1925 B, 218.
Zierler, F. E. 1905 A, 512 ("pariotychiden").
Zittel and Broili 1911 A, 192.
1923 A, 229.
Zittel, Eastman, etc. 1902 A, 181.

PARIOTICHUS Cope. Type *P. brachyops* Cope.

Hay, O. P. 1902 A, 428.
Arldt, T. 1908 A, 571.
Branson, E. B. 1911 A, 135, pl. i, figs. 3, 4.
Broili, F. 1904 A, 85, 101, pl. xii, figs. 13-28.
1904 D, 581.
1905 A, 15.
Broom, R. 1901 A, 183.
1903 D, 286, 292.
1903 E, 135.
1905 B, 214.
1908 A, 1050.
1910 A, 216, 232.
1910 C, 474 (Syn. of Captorhinus).
1911 A, 919.
Case, E. C. 1908 C, 576.
1911 A, 9, 34, 65.
1915 A, 136.
Cope, E. D. 1880 U, 145.
Cummins, W. F. 1908 A, 745.
Fuchs, H. 1909 B, 121, fig. 7.
1920 A, 361.
Huene, F. 1910 B, 58.
1910 D, 314.
1912 A, 98.
1913 B, 376.
1925 I, 249.
Kesteven, H. L. 1919 A, 235, fig. 20.
Nopcsa, F. 1922 A, 109.
1923 H, 21, 23, 30.
1928 A, 164.
Schuchert, C. 1910 A, 570.
Stappenbeck, R. 1905 A, 430.
Steiner, H. 1922 A, 340.
Sushkin, P. P. 1928 A, 277.
Versluys, J. 1912 A, 500.
Versluys, J. 1912 B, 554, 564.
Watson, D. M. S. 1914 D, 171.
1917 C, 172.
Williston, S. W. 1908 A, 140.
1908 B, 400.
1909 C, 241.
1909 E, 194.
1910 B, 71.
1916 B, 219.
1925 B, 218.
Woodward, A. S. 1898 B, 150.
Zittel and Broili 1911 A, 192.
1923 A, 229.

Pariotichus brachyops Cope.

Hay, O. P. 1902 A, 428.
Beede, J. W. 1907 A, 118.
Broili, F. 1904 A, 85.
Case, E. C. 1911 A, 34, 91, text-fig. 36.
1915 A, 98.
Cummins, W. F. 1908 A, 743.
Huene, F. 1913 B, 353, fig. 38.
Williston, S. W. 1909 C, 255.
Permian (Wichita); Texas.

Pariotichus laticeps Williston.

Williston, S. W. 1909 C, 242, figs. 1-3, 5, 6.
Branson, E. B. 1911 A, 135, 136.
Huene, F. 1910 B, 58, fig. 25.
1911 D, 46, 55, fig. 60.
1912 A, 79, fig. 10.
Jaekel, O. 1911 A, 124, fig. 139.
Osborn, H. F. 1918 D, 686.
Williston, S. W. 1910 B, 83.
Permian; Texas.

ISODECTES Cope. Type *Pariotichus megalops* Cope.

Hay, O. P. 1902 A, 428.
Broili, F. 1904 A, 101.
Case, E. C. 1902 A, 46.
1902 C, 257.
1908 C, 576.
1911 A, 9, 36, 65, text-fig. 37.
1915 A, 136.
Cummins, W. F. 1908 A, 745.
Huene, F. 1913 B, 376, 377.
Jaekel, O. 1911 A, 126.
Moodie, R. L. 1909 B, 12.
1909 D, 240.
1909 F, 219.
Nopcsa, F. 1923 H, 14 (Syn. of Conodectes).
Schuchert, C. 1910 A, 570.
Stappenbeck, R. 1905 A, 431.
Watson, D. M. S. 1917 C, 172.
Williston, S. W. 1909 C, 253.
Williston, S. W. 1916 A, 176, fig. 32.
1916 B, 219.
1925 B, 218.
Zittel and Broili 1911 A, 193.
1923 A, 229.

Isodectes megalops Cope.

Hay, O. P. 1902 A, 428.
Beede, J. W. 1907 A, 119.
Branson, E. B. 1911 A, 136 (Pariotichus).
Case, E. C. 1902 A, 46.
1902 C, 257 [I. (Pariotichus)].
1911 A, 36, 92.
1915 A, 98.
Cummins, W. F. 1908 A, 744.
Huene, F. 1913 B, 353, fig. 39.
Williston, S. W. 1909 C, 253.
Permian (Clear Fork); Texas.

ECTOCYNODON Cope. Type *E. ordinatus* Cope.

Hay, O. P. 1902 A, 428 (Pariotichus, in part).
Case, E. C. 1911 A, 9, 35, 65.
1915 A, 136.
Williston, S. W. 1916 B, 219.
1925 B, 218.

Ectocynodon ordinatus Cope.

Hay, O. P. 1902 A, 428 (Pariotichus).
Beede, J. W. 1907 A, 118, 139 (Pariotichus).
Broili, F. 1904 A, 85 (Pariotichus).
Case, E. C. 1902 B, 67 (Pariotichus).
1911 A, 35, text-fig. 10.
1915 A, 98.
Cummins, W. F. 1908 A, 744 (Pariotichus).
Williston, S. W. 1909 C, 255 (Pariotichus).
Permian (Wichita); Texas, Oklahoma.

PUERCOSAURUS Williston. Type *P. obtusidens* Williston.

Williston, S. W. 1916 A, 189.
Nopcsa, F. 1928 A, 171.
Watson, D. M. S. 1917 C, 172.
Williston, S. W. 1916 B, 221.
1925 B, 218.

Puercosaurus obtusidens Williston.

Williston, S. W. 1916 A, 189, fig. 37.
Permian; New Mexico.

LIMNOSCELIDÆ Williston.

Williston, S. W. 1911 D, 380.
Abel, O. 1919 A, 338.
Broili, F. 1924 A, 9.
Case, E. C. 1911 A, 66.
1915 A, 98, 102.
Eastman, C. R. 1912 C, 657.
Nopcsa, F. 1923 E, 1053.
1923 H, 23, 121, 160.
Nopcsa, F. 1928 A, 165.
Versluys, J. 1912 B, 611.
Watson, D. M. S. 1917 C, 173 ("superfamily").
Williston, S. W. 1911 B, 23.
1911 C, 631.
1916 B, 212.
1925 B, 218.
Zittel and Broili 1923 A, 226.

LIMNOSCELIS Williston. Type *L. paludis* Williston.

Williston, S. W. 1911 D, 380.
Abel, O. 1920 A, 358.
Amalitsky, V. P. 1921 B, 9.
1924 B, 64.
Broili, F. 1914 C, 29.
Broili and Fischer 1917 A, 409.
Broom, R. 1913 I, 357.
1915 C, 8.
Case, E. C. 1915 A, 108, 109, 135.
Eastman, C. R. 1913 B, 768.
Gregory, W. K. 1913 B, 242.
1920 A, 121, 229, fig. 32.
Hay, O. P. 1912 C, 563.
Huene, F. 1916 A, 60, text-fig. 94.
1920 F, 461.
1925 I, 246.
Kingsley, J. S. 1925 A, 267, fig. 290.
Lakjer, T. 1927 A, 225.
Lydekker, R. 1913 A, 17.
Miner, R. W. 1925 A, 189.
Mook, C. C. 1921 D, 101.
Nopcsa, F. 1922 A, 109.
1923 E, 1049.
1923 H, 14, 22, 56, pl. v, fig. 2.
1928 A, 165.
Romer, A. S. 1922 B, *passim*.
1927 B, 680.
1928 C, 257, 258.
Steiner, H. 1922 A, 340.
Sushkin, P. P. 1928 A, 269, 276.
Versluys, J. 1912 B, 585, 611.
Watson, D. M. S. 1914 D, 166.
1914 E, 746.
1916 C, 630.
1917 C, 173.
1919 A, 286, 294.

Williston, S. W. 1911 A, 237.
1911 B, 23, 42.
1911 D, 379.
1911 E, 699, fig. 2.
1912 A, 457, 466.
1914 A, 20, figs. 3, 24.
1914 C, 58, fig. 1.
1914 D, 413.
1914 E, 121.
1915 A, 578.
1916 B, 213, fig. 55.
1917 A, 315.
1925 A, 115, 165, 170, 179, figs. 95, 133.
1925 B, 219, fig. 163.
Zittel and Broili 1923 A, 226.

Limnoscelis paludis Williston.

Williston, S. W. 1911 D, 380, figs. 1-7.
Abel, O. 1912 F, 387.
1919 A, 335, figs. 255-257.
Broom, R. 1921 A, 146, fig. 4.
Case, E. C. 1915 A, 98, 136, text-fig. 20.
Hay, O. P. 1912 C, 563.
Lebedinsky, N. G. 1917 A, 336, fig. 26.
Lull, R. S. 1917 B, 499, fig. 150.
Versluys, J. 1912 B, 560, fig. O.
Williston, S. W. 1911 A, 237.
1911 B, 23, text-figs. 3-16.
1912 A, 457, figs. 1-32.
1914 C, 64, fig. 6.
1925 A, 37, 144, figs. 23, 24, 26, 27, 115, 116.
Williston and Case 1913 A, 6.
Permian; New Mexico.

Suborder PANTYLIFORMES, new name.

The authors below cited use Pantylosauria.
Arldt, T. 1912 A, 656.
Broom, R. 1913 E, 532.
Case, E. C. 1911 A, 58, 63, 64.
1915 A, 98, 138.
Huene, F. 1913 B, 377.
Moodie, R. L. 1913 A, 189.
Nopcsa, F. 1928 A, 164 (Labidosauroidea).
Romer, A. S. 1925 B, 461.
Williston, S. W. 1914 A, 16, 45.
1916 A, 165.
1916 B, 195.
1925 B, 210, 220.

PANTYLIDÆ Case.

Case, E. C. 1911 A, 58, 64, 113.
Abel, O. 1919 A, 341.
Nopcsa, F. 1923 H, 23, 121, 151, 160.
1928 A, 165 (Pantyloidea, Pantylidæ).
Watson, D. M. S. 1917 C, 173 (As superfamily).
Williston, S. W. 1911 C, 631.
1912 B, 647.
1916 B, 215.
1925 B, 220.

PANTYLUS Cope. Type *P. cordatus* Cope.

Hay, O. P. 1902 A, 429.
Broili, F. 1904 A, 101.
Broom, R. 1903 D, 286, 292.
1903 E, 135.
1910 A, 217.
1913 E, 527.
1922 A, 18, 19, 25.
1924 A, 507.
1924 B, 64, fig. 13.
1925 A, 15.
Camp, C. L. 1923 A, 474, fig. 82.
Case, E. C. 1911 A, 59, 66.
1912 A, 202.
1915 A, 102, 106, 138.
Cummins, W. F. 1908 A, 745.
Eastman, C. R. 1917 B, 655.
Eastman, Gregory and Matthew 1917 A, 118.
Gregory, W. K. 1920 A, 120, 229, figs. 27, 34.
1926 A, 245.
Huene, F. 1913 B, 377.
Kingsley, J. S. 1925 A, 143, fig. 152.
Lakjer, T. 1927 A, 225.
Lydekker, R. 1914 A, 649.
Mehl, M. G. 1912 A, 21.
Nopcsa, F. 1922 A, 109.
1923 H, 23.
1928 A, 165.
Osborn, H. F. 1917 B, 187.
1918 D, 687.
Romer, A. S. 1925 B, 461.
1928 C, 258.
Schuchert, C. 1910 A, 570.
Watson, D. M. S. 1914 D, 171.
1917 C, 173.
Williston, S. W. 1909 C, 253.
1911 C, 631.
1914 C, 66.
1915 A, 575.
1915 B, 253.
1915 C, 554, 559 (Ostodolepis a syn.).
1916 A, 165, figs. 20-30.
1916 B, 215.
1917 A, 311.
1917 C, 419.
1917 D, 986.
1918 B, 91.
1925 A, 14, 20, 31, 34, 131, figs. 4-6, 12, 13, 18, 105.
1925 B, 215, 217, 220.

Pantylus coïcodus Cope.

Hay, O. P. 1902 A, 429.
Beede, J. W. 1907 A, 119.
Case, E. C. 1907 A, 658.
1911 A, 60, text-fig. 18.
Cummins, W. F. 1908 A, 743.
Mehl, M. G. 1912 A, 26.
Permian (Clear Fork); Texas.

Pantylus cordatus Cope.

Hay, O. P. 1902 A, 429.
Abel, O. 1919 A, 343, figs. 263, 264.

Beede, J. W. 1907 A, 119.
Broom, R. 1913 E, 527, figs. 1-4.
Case, E. C. 1911 A, 59, 113, 114, text-figs. 51, 52.
1915 A, 98.
Cummins, W. F. 1908 A, 743.
Huene, F. 1913 B, 354, figs. 40, 41.
Lydekker, R. 1914 A, 649, fig. 6.
Mehl, M. G. 1912 A, 21, figs. 1, 2.
Moodie, R. L. 1913 A, 189.
Williston, S. W. 1909 C, 253.
Permian (Clear Fork, Wichita); Texas.

Pantylus tryptychus Cummins.

Cummins, W. F. 1908 A, 743 (No description).
Permian (Clear Fork); Texas.

OSTODOLEPIS Williston. Type *O. brevispinatus* Williston.

Williston, S. W. 1913 D, 363.
Watson, D. M. S. 1917 A, 979.
Williston, S. W. 1915 C, 559 (Syn. of Pantylus).
1916 A, 165, 174, fig. 31.
1916 B, 215.
1925 B, 220.

Ostodolepis brevispinatus Williston.

Williston, S. W. 1913 D, 262, figs. 1, 2.
Case, E. C. 1915 A, 98, 110 (Pantylus).
Permian (Clear Fork); Texas.

COTYLOSAURIA INCERTÆ SEDIS.

CHAMASAURUS Williston. Type *C. dolichognathus* Williston.

Williston, S. W. 1915 A, 577.
1916 B, 221.
1925 B, 218.

Chamasaurus dolichognathus Williston.

Williston, S. W. 1915 A, fig. 2.
Case, E. C. 1915 A, 98.
Permian; New Mexico.

ARCHERIA Case. Type *A. robinsoni* Case.

Case, E. C. 1915 A, 170.
Romer, A. S. 1922 B, 523, 537, 557, pl. xxxvii.
Williston, S. W. 1916 B, 221.
1925 B, 218.

Archeria robinsoni Case.

Case, E. C. 1915 A, 98, 157, 169, 170, pl. xxiii, figs. 7, 8; text-fig. 44.
Permian (Clear Fork); Texas.

BATHYGLYPTUS Case. Type *B. theodori* Case.

Case, E. C. 1911 A, 9, 32.
Arldt, T. 1912 A, 656.
Case, E. C. 1915 A, 134, 135.
Williston, S. W. 1916 B, 222.
1925 B, 218.

Bathyglyptus theodori Case.

Case, E. C. 1911 A, 32.
1915 A, 98.
Permian (Clear Fork); Texas.

TOMICOSAURUS Case. Type *T. casei*, sp. nov.

Case, E. C. 1907 E, 64, pl. xxvii, figs. 8, 9.
Williston, S. W. 1910 F, 590.
1916 B, 234.
1925 B, 236.
A genus of uncertain ordinal position.

Tomicosaurus casei sp. nov.

Case, E. C. 1915 A, 98 (T. sp.).
Permian (Clear Fork?, Wichita?); Texas.

HYPSOGNATHUS Gilmore. Type *H. fenneri* Gilmore.

Gilmore, C. W. 1928 E, 2.

Hypsognathus fenneri Gilmore.

Gilmore, C. W. 1928 E, 2, pls. i-iii; text-figs. 1-3.
Triassic (Brunswick shale); New Jersey.

Subclass POECILOGLYPTICA, new name.

The term Synapsida, as employed by the authors cited, includes also the group called in the present work the Atremata.

Abel, O. 1912 F, 221.
Arldt, T. 1908 A, 585.
Broom, R. 1904 B, 93.
1904 C, 111.
1906 F, 374.
1907 A, 37.
1908 A, 1048.
Fuchs, H. 1909 B, 140, 149, 150.
1911 B.
Fürbringer, M. 1904 A, 581.
Goodrich, E. S. 1916 A, 263.
Huene, F. 1911 D, 58.
Jaekel, O. 1905 B, 61.
1908 A, 140 (Synapsidia).
1908 B, 464.
Osborn, H. F. 1903 F, 276.
1903 H, 452, 455, 459, 465, 506.
1904 H, 99.
1904 L, 256.
1904 N, 308.
1904 S, 366 (Lynapida, err. typ.).

Osborn, H. F. 1905 C, 295.
Plieninger, F. 1906 A, 406.
Romer, A. S. 1922 B, 523.
Thevenin, A. 1909 A, 1224 ("synapsidés").
Versluys, J. 1919 A, 2, 25.
Williston, S. W. 1904 B, 175.
  1907 A, 487.
  1908 I, 629.
  1911 B, 66.
  1914 A, 15.
  1917 C, 415.

Superorder ELPIDOSAURIA, new name.

Order SPHENACODONTOMORPHI, new name.

The ordinal terms Theromorpha and Theromora are employed by the authors, as quoted, in widely varying senses. They are not here adopted.

Hay, O. P. 1902 A, 430 (Pelycosauria).
Abel, O. 1912 F, 509 ("theromorphen").
Adloff, P. 1904 B, 55 ("theromorphen").
Arldt, T. 1907 D, 685.
  1907 E, 206.
Beddard, F. E. 1902 A, 90.
Bluntschli, H. 1912 B, 387 ("theromorphen").
Boulenger, G. A. 1917 C, 457.
  1918 E, 517 ("théromores").
Broili, F. 1904 A, 68.
  1904 D, 578 ("theromorphen").
Broom, R. 1903 D, 287.
  1910 C, 473.
  1924 B, 64, fig. 13 (Pelycosauria).
Case, E. C. 1915 A, 98, 122 (Theromora).
Cope, E. D. 1878 CC, 829 (Theromorpha).
  1880 U, 162 ("théromorphs").
  1885 EE, 611.
Döderlein, L. 1900 A, 335.
Du Toit, P. J. 1911 A, 420.
Fuchs, H. 1907 A, 149 ("theromorphen").
  1907 B, 415 ("theromorphen").
  1909 B, 141.
  1911 B ("theromorphen").
Fürbringer, M. 1902 B, 727 ("theromorphen").
Gadow, H. 1901 B, 300.
  1902 B, 359.
Hay, O. P. 1912 C, 562, 563.
Huene, F. 1911 D, 58 ("pelycosaurier").
  1912 F, 522 ("theromorphen").
  1922 G, 451 ("theromorphen").
  1925 D, 229 (Theromorpha).
  1925 I ("pelycosaurier").
  1926 A, 267 ("pelycosaurier").
  1926 I, 52, 62 ("pelycosaurier").
Kingsley, J. S. 1900 A, 248 ("theromorphs").
  1912 A, 185 ("theromorphs").
Kingsley, J. S. 1912 B, 89 ("theromorphs").
Koken, E. 1893 B, 279.
Laloy, L. 1907 A, 584 ("theromorphs").
Leche, W. 1887 A, 609.
Lydekker, R. 1912 C, 4, 16, 26.
Nopcsa, F. 1902 A, 186 ("theromorphen").
  1923 H, *passim.*
  1926 A, 633.
  1928 A, 171 (Pelycosauria).
Osborn, H. F. 1898 U, 686.
  1903 H, 452, 453.
Palacký, J. 1902 B, 140 ("theromorphen").
Parker and Haswell 1897 A, 313.
Rabl, C. 1903 A, 172 ("theromorphen").
Sixta, V. 1905 A, 671.
Stappenbeck, R. 1905 A, 427.
Steinmann, G. 1907 A, 444.
  1912 B, 717 ("theromorphen").
Sushkin, P. P. 1928 A, 278 (Pelycosauria).
Versluys, J. 1912 B, 660, 687.
  1919 A, 5, 22.
Watson, D. M. S. 1914 F, 778.
Wilckens, O. 1911 A, 706 ("theromorphen").
Williston, S. W. 1911 B, 70.
  1911 C, 631.
  1911 F, 662.
  1912 B, 645, 649.
  1914 A, 16, 45.
  1914 C, 66.
  1916 B, 193, 196, 198, 222.
  1917 C, 414.
  1918 A, 79.
  1925 A, *passim.*
  1925 B, 211, 228.
Woodward, A. S. 1897 C, 379 ("anomodonts").
  1923 A, 32 ("theromorph reptiles").
Zierler, F. E. 1905 A, 512.
Zittel and Broili 1911 A, 188 (Theromora).
  1923 A, 222 (Theromorpha).
Zittel, Eastman, etc. 1902 A, 179.

Suborder Poliosauriformes, new name.

Williston, S. W. 1925 B, 233 (Poliosauria).

GLAUCOSAURIDÆ Huene.

Huene, F. 1925 I, 245.
Nopcsa, F. 1928 A, 171 (Glaucosaurinæ).

Mycterosaurus Williston. Type *M. longiceps* Williston.

Williston, S. W. 1915 C, 554, 559.
Abel, O. 1919 A, 363.
Gregory, W. K. 1919 B, 422, fig. 3.
  1920 A, 122, 123, fig. 38.
  1922 A, 506, 510, 518, fig. 348.
  1926 B, 408, 426, fig. 1.
  1927 G, 268, fig. 1.
Huene, F. 1925 I, 245.
Nopcsa, F. 1923 H, 54.
  1928 A, 171.
Osborn, H. F. 1918 D, 687.
Watson, D. M. S. 1917 C, 173.
Williston, S. W. 1916 A, 165.
  1916 B, 233, figs. 82, 83.

Williston, S. W. 1917 C, 415, fig. 3.
1918 B, 91.
1925 A, 48, 64, figs. 35, 39, 53.
1925 B, 236.
Zittel and Broili 1923 A, 232.
A genus of somewhat uncertain position.

Mycterosaurus longiceps Williston.

Williston, S. W. 1915 C, 554, figs. 1, 2.
Abel, O. 1919 A, 364, fig. 283.
Case, E. C. 1915 A, 99.
Huene, F. 1925 I, 245, text-fig. 23.
Osborn, H. F. 1918 D, 686.
Permian (Wichita); Texas.

GLAUCOSAURUS Williston. Type *G. megalops* Williston.

Williston, S. W. 1915 A, 575.
Huene, F. 1925 I, 245.
Nopcsa, F. 1923 H, 54, 55, 193.
Watson, D. M. S. 1917 C, 175.
Williston, S. W. 1916 A, 165.
1916 B, 233.
1925 B, 236.
The systematic position of this genus is not certain.

Glaucosaurus megalops Williston.

Williston, S. W. 1915 A, 575, fig. 1.
Case, E. C. 1915 A, 99.
Huene, F. 1925 I, 245, text-fig. 22.
Williston, S. W. 1925 A, 48, fig. 34.
Permian (Wichita); Texas.

POLIOSAURIDÆ Case.

Case, E. C. 1907 E, 18, 71, 77, 157.
Anonymous 1912 A, 520.
Arldt, T. 1908 A, 570 ("poliosauriden").
1912 A, 656, 662.
Broili and Fischer 1917 A, 409.
Case, E. C. 1908 C, 576, 578.
1915 A, 98, 102, 107, 122, 151.
1926 B, 193.
Geol. Mag. 1912 A, 520.
Huene, F. 1908 A, 434 ("poliosauriden").
1913 B, 377.
1925 I, 238, 245.
Gregory, W. K. 1913 E, 39 ("poliosaurs").
Nopcsa, F. 1923 H, 60, 123, 151, 168.
1928 A, 171 (Poliosauridæ, Poliosaurinæ).
Romer, A. S. 1922 B, 590.
Watson, D. M. S. 1914 G, 1004.
1917 B, 16, 49.
1917 C, 173.
Williston, S. W. 1910 F, 592.
1911 B, 71, 80.
1911 C, 631.
1912 B, 649.
1915 C, 559.
1916 A, 186.
1916 B, 225.
1925 B, 230, 233.
Zittel and Broili 1911 A, 194.
1923 A, 232, 270.

POLIOSAURUS Case. Type *Theropleura uniformis* Cope.

Case, E. C. 1907 E, 18, 72, 77, pl. i, figs. 9-13.
Abel, O. 1919 A, 363.
Arldt, T. 1908 A, 570.
Broom, R. 1913 D, 515.
Case, E. C. 1908 D, 559.
1915 A, 136, 171, text-fig. 45.
Romer, A. S. 1925 A, 182.
Watson, D. M. S. 1917 C, 173.
Williston, S. W. 1915 C, 559.
1916 B, 226.
1925 B, 233.
Zittel and Broili 1911 A, 194.

Poliosaurus uniformis Cope.

Hay, O. P. 1902 A, 433 (Theropleura).
Beede, J. W. 1907 A, 119 (Theropleura).
Case, E. C. 1903 A, 87 (Theropleura).
1907 E, 18, 19, pl. i, figs. 1-8.
1915 A, 98.
Cummins, W. F. 1908 A, 743 (Paleosaurus).
Permian (Wichita); Texas: (Enid); Oklahoma.

VARANOSAURUS Broili. Type *V. acutirostris* Broili.

Broili, F. 1904 C, 71, 79, 103, text-fig. 4.
Abel, O. 1919 A, 352, 362.
Anonymous 1912 A, 520.
Arldt, T. 1908 A, 570.
Broili, F. 1904 C, 270.
1914 C, 27.
1916 A, 485.
1917 A, 386, 391.
Broom, R. 1912 A, 626.
1913 D, 515.
Case, E. C. 1907 E, 20, 72, 79.
1915 A, 107, 123, 138.
Eastman, C. R. 1912 C, 657.
Geol. Mag. 1912 A, 520.
Gregory, W. K. 1913 B, 242.
1913 E, 39.
1926 A, 196, 244.
Hanson, F. B. 1920 B, 333, 337.
Hay, O. P. 1912 C, 563.
Huene, F. 1916 A, 62, figs. 95, 96.
1925 I, 17, 24.
Nopcsa, F. 1922 A, 116.
1923 E, 1047, 1053.
1923 H, 51-55, 57-59, 70, 74, 85-88, 170.
Romer, A. S. 1922 B, 552.
Steiner, H. 1922 A, 341.
Tornier, G. 1913 B, 341.
Versluys, J. 1912 B, 580, 663.
1919 A, 10.

Watson, D. M. S. 1914 A, 306.
1914 B, 85.
1914 D, 179.
1914 F, 776.
1914 G, 1004.
1914 H, 1015.
1916 A, 346.
1916 D, 646.
1917 B, 15, figs. 5, 26.
1917 C, 173.
1919 A, 299.
1921 B, 65, 70, 73, 79.
Wegner, R. N. 1922 A, 464.
Williston, S. W. 1910 A, 252.
1910 D, 530.
1910 F, 592.
1911 B, 54, 80, 85, 109.
1911 E, 698, 703, fig. 4.
1913 C, 744.
1914 D, 386, 387.
1914 E, 121.
1915 C, 559.
1916 B, 226.
1925 A, 108, fig. 84.
1925 B, 231, 233.
Williston and Case 1913 B, 46.
Zittel and Broili 1911 A, 194.
1923 A, 232.

Varanosaurus acutirostris Broili.

Broili, F. 1904 A, 71, pl. x, fig. 2; pl. xi; pl. xii, figs. 29-32.
Abel, O. 1920 A, 362, fig. 571.
Broili, F. 1914 C, 26, fig. 1.
1917 A, 563, fig. 3.
Case, E. C. 1907 E, 20, 79, pl. ii.
1915 A, 98.
Huene, F. 1905 A, 338.
1925 I, 236, text-figs. 9, 10.
1926 I, 53.
Sternberg, C. H. 1909 C, 254.
Watson, D. M. S. 1914 A, 297, figs. 1-5.
1914 D, 179.
1919 A, 298, fig. 15.
1921 B, 71, fig. 21.
Williston, S. W. 1911 B, 85, 91, text-fig. 27.
1914 D, 387.
1925 A, 49, fig. 38.
Zittel and Broili 1923 A, 232, fig. 333.
Permian (Clear Fork); Texas.

VARANOOPS Williston. Type *Varanosaurus brevirostris* Williston.

Williston, S. W. 1914 D, 387.
Abel, O. 1919 A, 362 (Varanops).
Case, E. C. 1915 A, 107, 138.
Huene, F. 1925 I, 229.
Nopcsa, F. 1923 E, 1049 (Varanops).
1923 H, 54-57, 85, pl. iv, fig. 6 (Varanops).
Osborn, H. F. 1917 B, 186, fig. (Varanops).
Romer, A. S. 1927 B, 680.
1928 C, 257, 258 (Varanops).
Watson, D. M. S. 1917 B, 16, 59 (Varanops).
1917 C, 173.
1918 A, 281.
Williston, S. W. 1914 A, 53, fig. 29 (Varanops).
1915 C, 559 (Varanops).
1916 B, 225, fig. 72 (Varanops).
1918 B, 91 (Varanops).
1925 A, 125, 133, 143, 167, 172, figs. 96, 114, 135.
1925 B, 233.
Zittel and Broili 1923 A, 232.

Varanoöps brevirostris Williston.

Williston, S. W. 1911 B, 85, frontispiece, pls. i-xii; pl. xiii, figs. 1-3; text-figs. 25, 26 (Varanosaurus).
Abel, O. 1919 A, 362.
Broom, R. 1912 A, 629, fig. 12 (Varanosaurus).
1921 A, 149, fig. 10 (Varanops).
Case, E. C. 1915 A, 98, 138, text-fig. 24 (Varanoops).
Hay, O. P. 1912 C, 562 (Varanosaurus).
Huene, F. 1925 I, 237, text-figs. 11, 12.
Osborn, H. F. 1918 D, 686 (Varanosaurus).
Watson, D. M. S. 1914 A, 303, 306 (Varanosaurus).
Williston, S. W. 1914 A, 53, fig. 29 (Varanops).
1914 C, 67, fig. 9 (Varanosaurus).
1914 D, 387, 398 (Varanoops).
1915 C, 387, 398 (Varanops).
1925 A, 48, figs. 36, 37 (Varanosaurus).
Permian (Clear Fork); Texas.

PŒCILOSPONDYLUS Case. Type *P. francisi* Case.

Case, E. C. 1910 B, 183.
Broom, R. 1913 D, 515.
Case, E. C. 1915 A, 107, 138.
Romer, A. S. 1922 B, 560.
Watson, D. M. S. 1914 G, 1008.
1917 C, 173.
Williston, S. W. 1910 F, 596.
1911 B, 80.
Williston, S. W. 1915 C, 387.
1916 B, 226.
1925 B, 233.

Pœcilospondylus francisi Case.

Case, E. C. 1910 B, 183, figs. 1-3.
1915 A, 98.
Permian (Clear Fork); Texas.

ARRIBASAURUS Williston. Type *Dimetrodon navajovicus* Case.

Williston, S. W. 1914 D, 408.
Case, E. C. 1915 A, 99.
Nopcsa, F. 1923 H, 54.
Watson, D. M. S. 1917 C, 175.
Williston, S. W. 1915 C, 559.
1916 B, 226.
1925 B, 233.

Put by Williston in the Poliosauridæ; by Case in the Sphenacodontidæ.

Arribasaurus navajovicus (Case).

Case, E. C. 1907 E, 56, 75, 137, pl. xxvii, figs. 1-5, 7; pl. xxxiii, figs. 3, 5, 12 (Dimetrodon).
Abel, O. 1912 F, 387, fig. 275 (Dimetrodon).
Case, E. C. 1915 A, 99, 139.
Huene, F. 1925 I, 241.
Williston, S. W. 1911 D, 379 (Dimetrodon navijoicus).
1914 D, 408, fig. 11 (D. navijoicus).
Williston and Case 1913 A, 6 (Dimetrodon).
Permian; New Mexico.

SCOLIOMUS Williston and Case. Type *S. puercensis* Williston and Case.

Williston and Case 1913 C, 60.
Nopcsa, F. 1923 H, 54.
Williston, S. W. 1916 B, 226, 234.
1925 B, 233.

The systematic position of this genus is doubtful.

Scoliomus puercensis Williston and Case.

Williston and Case 1913 C, 60, fig. 37.
Case, E. C. 1915 A, 98.
Permian; New Mexico.

OPHIACODONTIDÆ Williston and Case.

Williston and Case 1913 B, 59.
Abel, O. 1919 A, 364.
Case, E. C. 1926 B, 193.
Huene, F. 1925 I, 245.
Nopcsa, F. 1928 A, 171.
Romer, A. S. 1922 B, 590.
1925 A, 182.
Watson, D. M. S. 1917 B, 16.
1917 C, 174.
Williston, S. W. 1915 C, 559.
1916 B, 226.
1925 B, 230, 233.
Zittel and Broili 1923 A, 232.

OPHIACODON Marsh. Type *O. mirus* Marsh.

Hay, O. P. 1902 A, 434.
Abel, O. 1919 A, 355, 360, 364.
Brauns, D. 1890 A, 152.
Broili and Fischer 1917 A, 386, 409.
Case, E. C. 1915 A, 107, 138, 139.
Eastman, C. R. 1913 B, 678.
Huene, F. 1914 G, pl. vii.
1916 A, 63.
1922 B, 72.
1922 G, 451.
1925 I, 226.
Nopcsa, F. 1922 A, 109, 110.
1923 E, 1047, 1049.
1923 H, 33, 51, 54, 55, 58, 68, 70, 74, 82, 90, pl. v, fig. 8.
1928 A, 171.
Osborn, H. F. 1917 B, 186.
Romer, A. S. 1922 B, *passim*, pls. xxiii, xxxvii, xlvi.
1925 A, 173, 181.
Steiner, H. 1921 A, 537.
1922 A, 341.
Versluys, J. 1919 A, 10, 11, 24.
Watson, D. M. S. 1914 A, 304.
1914 D, 179.
1914 G, 1005.
1916 D, 643.
1917 B, 16.
1917 C, 174.
1921 B, 72.
Williston, S. W. 1911 B, 21, 80, 81, 110, pl. xxxiv, figs. 4, 10?, 11?; pl. xxxv, figs. 5?, 6, 7?, 8-11; pl. xxxvii, figs. 3?, 4, 5.
1911 D, 379.
1911 E, 698, fig. 3.
1912 A, 463.
1912 B, 641, fig. 1.
1912 E, 260.
1914 A, 30, figs. 13, 15, 20-23.
1914 C, 69.
1914 D, 398.
1914 E, 121.
1915 C, 559.
1916 A, 182, 188.
1916 B, 227, figs. 73-78.
1917 B, 650.
1917 C, 415.
1925 A, 101, 104, 127, 133, 135, 144, 165, 183, 187, figs. 78, 97, 117, 134, 152.
1925 B, 232, 233, fig. 168.
Williston and Case 1913 B, 37.
Zittel and Broili 1923 A, 233.

Ophiacodon mirus Marsh.

Hay, O. P. 1902 A, 434.
Abel, O. 1919 A, 365, figs. 284-287.
Brauns, D. 1890 A, 152.
Broili and Fischer 1917 A, 410, fig. 14.
Broom, R. 1912 A, 629, fig. 11.
1914 C, 140, fig. 6.
1921 A, 147, fig. 8.
Case, E. C. 1915 A, 98, 139, 170, text-fig. 25.
Huene, F. 1925 I, 26, text-fig. 13.
Lydekker, R. 1914 A, 650.
Mehl, M. G. 1912 C, 409.
Moodie, R. L. 1923 B, pl. xiv.
Osborn, H. F. 1918 D, 686.
Romer, A. S. 1925 A, 175.
Steiner, H. 1922 A, 341.
Williston, S. W. 1911 B, 81, pl. xxxiv, fig. 3; pl. xxxvii, fig. 1.
1914 C, 69, fig. 11.
1925 A, 46, 106, 160, figs. 32*b*, 82, 131.
Williston and Case 1913 A, 6.
1913 B, 37, pl. i; text-figs. 23-34, 36.
Zittel and Broili 1923 A, 219, fig. 324.
Permian; New Mexico.

Ophiacodon sp. indet.

Case, E. C. 1916 B, 709 (This genus?).
Permo-carboniferous; New Mexico.

THEROPLEURA Cope. Type *T. retroversa* Cope.

Hay, O. P. 1902 A, 433.
Arldt, T. 1908 A, 570.
Broili, F. 1904 A, 80, 102.
Camp, C. L. 1923 A, 392.
Case, E. C. 1903 A, 86.
 1907 E, 22, 73, 81, pl. v, fig. 8; pl. xxvii, fig. 4; pl. xxxiii, fig. 8; text-fig. 24.
 1908 D, 559, fig. 2.
 1915 A, 107, 139, 173, text-fig. 47 (This genus?).
Cummins, W. F. 1908 A, 745.
Gregory, W. K. 1926 A, 244.
Heilprin, A. 1887 A, 154.
Huene, F. 1905 A, 339.
 1911 D, 29, 33, 38.
 1911 E, 119, fig. 36.
 1914 E, 499.
 1925 I, 236.
Nopcsa, F. 1923 E, 1053.
 1923 H, 54, 55, 59, 83.
 1928 A, 171.
Osborn, H. F. 1917 B, 186.
 1918 D, 687.
Romer, A. S. 1922 B, 560.
 1925 A, 177, 182.
Schuchert, C. 1910 A, 570.
Thevenin, A. 1910 A, 56.
Watson, D. M. S. 1916 C, 625, 634.
 1916 D, 643.
 1917 B, 49.
 1917 C, 174.
Williston, S. W. 1911 B, 80, 110.
 1911 D, 379.
 1914 C, 70.
 1915 A, 575, 578.
 1915 C, 559.
 1916 A, 165, 178, 188, figs. 33-35.
 1916 B, 227.
 1925 A, 120, fig. 94.
 1925 B, 233, fig. 169.
Williston and Case 1913 B, 59.
Zittel and Broili 1911 A, 194.
 1923 A, 233 (Syn. of Diopæus).

Theropleura grandis Case.

Case, E. C. 1907 E, 28, 88, text-fig. 26.
 1915 A, 98.
 Permian (Wichita, Clear Fork?); Texas.

Theropleura retroversa Cope.

Hay, O. P. 1902 A, 433 (T. retroversa, T. triangulata).
Beede, J. W. 1907 A, 119 (T. retroversa, T. triangulata).
Broom, R. 1914 C, 137, fig. 1.
Case, E. C. 1907 E, 25, 26, 81, pl. iii; pl. xiii, fig. 1; text-figs. 21-23, 25.
 1915 A, 98, 139, text-figs. 26.
Cummins, W. F. 1908 A, 742.
Huene, F. 1911 D, 33, figs. 33, 34.
Thevenin, A. 1910 A, 57, fig. 32.
Watson, D. M. S. 1916 D, 643, figs. 6, 7 ("Theropleura").
Williston, S. W. 1911 B, 82.
Williston and Case 1913 B, 43.
 Permian (Wichita); Texas.

WINFIELDIA Romer. Type *W. hilli* Romer.

Romer, A. S. 1925 A, 174, 182.

Winfieldia hilli Romer.

Romer, A. S. 1925 A, 174, 183, figs. 1-3.
 Permian (Wichita); Kansas.

DIOPEUS Cope. Type *D. leptocephalus* Cope.

Cope, E. D. 1892 Z, 11.
Hay, O. P. 1902 A, 431 (Clepsydrops, in part)
Case, E. C. 1903 A, 86, 98.
 1907 E, 22 (Syn. of Theropleura).
Huene, F. 1925 I, 239.
 1926 I, 52.
Nopcsa, F. 1923 H, 53, 58, 170 (Diopeus, Diopæus).
 1928 A, 171 (Diopæus).
Watson, D. M. S. 1916 D, 643.
 1917 C, 174 (Deiopeus).
 1921 B, 70, 72 (Deiopeus).
Williston, S. W. 1916 A, 179 (Diopæus).
 1925 B, 233.
Zittel and Broili 1911 A, 194 (Diopeus; syn. of Theropleura).
 1923 A, 233 (Diopæus).

Diopeus leptocephalus Cope.

Hay, O. P. 1902 A, 431 (Clepsydrops).
Beede, J. W. 1907 A, 119 (Clepsydrops).
Camp, C. L. 1923 A, 349.
Case, E. C. 1900 A, 720 (Clepsydrops).
 1903 A, 88, figs. 1-3.
 1907 E, 26, 81 (Syn. of Theropleura retroversa).
Cummins, W. F. 1908 A, 742 (Clepsydrops).
Gill, T. 1886 C, 809 (Clepsydrops leptoupbalus).
Huene, F. 1925 I, 239, text-fig. 14.
Watson, D. M. S. 1916 C, 625, 651, figs. 9-11 (To Theropleura).
 1919 A, 298, fig. 15 (Deiopeus).
 1921 A, 431 (Deiopeus).
Williston, S. W. 1916 A, 179 (Diopæus).
 A doubtful species.
 Permian (Wichita); Texas.

ELCABROSAURUS Case. Type *E. baldwini* Case.

Case, E. C. 1907 E, 28, 73.
 1915 A, 138.
Nopcsa, F. 1923 H, 54.
Williston, S. W. 1911 B, 80.
 1911 D, 379 (Elcabrosaurus, Elcobrosaurus).
 1915 C, 559 (Elcobresaurus).
 A genus of uncertain affinities.

Elcabrosaurus baldwini Case.

Case, E. C. 1907 E, 28, 89, pl. iv, figs. 1-5.
1915 A, 98.
Williston and Case 1913 A, 6 (Elcobresaurus).
Permian; New Mexico.

Suborder SPHENACODONTIFORMES, new name.

Unless otherwise indicated the authors, as cited, use for this group the name Pelycosauria.

Hay, O. P. 1902 A, 430.
Abel, O. 1908 D, (217).
1909 F, 455.
1912 F, 691 ("pelycosaurier").
1919 A, 352.
1920 A, 361.
Ameghino, F. 1889 A, 1021.
1893 E, 731 ("pélycosauriens").
Arldt, T. 1908 A, 570 ("pelycosaurier").
Bardeleben, K. 1901 A, 37 ("pelycosaurier").
Baur, G. 1886 O, 174.
1887 H, 55.
1894 B, 354.
Boas, J. E. V. 1914 B, 557 ("pelycosaurier").
1914 C, 262 ("pelycosaurier").
Boulenger, G. A. 1903 A, 357.
1904 C, 480.
1917 C, 459 ("pélycosauriens").
Brauns, D. 1890 A, 162 ("pelycosaurier").
Broili, F. 1904 A, 67 ("pelycosaurier"); 69, 101 (Syn. of Theriodontia).
1904 C, 273 ("pelycosaurier").
1904 D, 585 ("pelycosaurier").
1905 A, 16 ("pelycosaurier").
1917 A, 564.
1924 A, 11 ("pelycosaurier").
Broom, R. 1897 C, 279 (Theromora, in part).
1901 A, 188.
1902 D, 554.
1903 D, 286, 289, 291.
1903 E, 136 ("pelycosaurians").
1903 I, 554.
1906 B, 559.
1906 C, 438 ("pelycosaurs").
1907 A, 37.
1908 A, 1049.
1909 B, 166.
1910 A, 220, 228.
1910 C, 473.
1911 A, 917 ("pelycosaurians").
1912 B, 421.
1913 G, 335.
1913 I, 355.
1913 K, 12.
1913 L, 31 ("pelycosaurs").
1913 P, 226-228 ("pelycosaurians").
1914 C, 135 ("pelycosaurs").
1914 E, 143 ("pelycosaurs").
1914 G, 303 ("pelycosaurs").
1915 C, 9.
1921 A, 148 ("pelycosaurs").
Broom and Haughton 1913 B, 30 ("pelycosaurs").
Case, E. C. 1899 C, 622.
1902 A, 47, pl. ix, figs. 3-5; pl. x, figs. 6, 7 ("pelycosaurian").
1902 C, 258.
1903 A, 85, 86.
1903 B, 6, fig. 2.
Case, E. C. 1904 A, 304.
1904 C, 253.
1905 C, 6.
1907 E, 5, 17, 71, 157.
1908 B, 240.
1908 D, 565 ("pelycosaurs").
1908 E, 255.
1909 B, 979.
1910 C, 195.
1911 A, 116.
1912 A, 203.
1915 A, 98, 122.
1923 A, 517.
1924 B, 9.
1926 B, 193 (Pelycosauria).
Cummins, W. F. 1908 A, 745.
Dollo, L. 1885 C, 301.
Frassetto, F. 1915 A, 19.
Fuchs, H. 1906 A, 13, 51, 73 ("pelycosaurier").
1907 A, 149.
1911 B.
Geol. Mag. 1912 A, 520.
Gill, T. 1886 C, 809.
Goodrich, E. S. 1916 A, 263, 267.
Gregory, W. K. 1910 A, 115.
1913 E, 14, 39 ("pelycosaurs").
1920 A, 230.
1922 A, 543.
1926 A, 184, 243, 245.
Hanson, F. B. 1920 B, 337.
Haughton, S. H. 1918 A, 214.
Hay, O. P. 1912 C, 562.
Heilmann, G. 1926 A, 85.
Hilzheimer, M. 1913 A, 513 ("theromoren," in part).
Hoffmann, C. K. 1890 B, 1301.
Howes and Swinnerton 1901 A, 32.
Huene, F. 1905 A, 321 ("pelycosaurier").
1908 A, 431 ("pelycosaurier").
1908 B, 387 ("pelycosaurier").
1910 B, 39, 51 ("pelycosaurier").
1910 D, 313 ("pelycosaurier").
1911 D, 29, 55, 58.
1913 B, 377, 378.
1914 E, 499 ("pelycosaurier").
1914 G, pl. vii.
1920 B, 208 ("pelycosaurier").
1921 A, 232 ("pelycosaurier").
1922 B, 75 ("pelycosaurier").
1923 D, 269 ("pelycosaurier").
1925 D, 229, 238.
1926 A, 260.
1927 E, 322.
Jaekel, O. 1905 A, 192 ("pelycosaurier").
1910 B, 527.
Kingsley, J. S. 1901 A, 193 ("theriomorphs").
Koken, E. 1898 C, 328.
Lambe, L. M. 1912 A, 6.
Lydekker, R. 1912 C, 4, 26.
Matthew, W. D. 1908 B, 184.
1908 D, 816.

Merriam, J. C. 1908 C, 57.
Moodie, R. L. 1911 E, 250.
Noack, T. 1880 A, 76 ("eidechsen").
Nopcsa, F. 1922 A, 109, 110, 116, 117.
1923 E, 1049 ("pelycosaurians").
1923 H, 3-187, tab.
1926 A, 636, 638.
1928 A, 171 (Dimetrodontoidea).
Osborn, H. F. 1898 U, 686.
1899 J, 415 (Theromora, in part).
1903 H, 453, 456, 467, 474.
1904 H, 110.
1905 C, 295.
1905 N, 238.
Pinkus, F. 1904 A, 162.
Rabl, C. 1903 A, 172 ("pelycosaurier").
Romer, A. S. 1922 B, 519, 523, 588.
1924 C, 98 ("pelycosaurs").
1925 B, 460.
Schuchert, C. 1915 A, 809.
Sewertzoff, A. N. 1908 A.
Sixta, V. 1905 A, 671.
Stappenbeck, R. 1905 A, 388, 427 (Pelycosauria); 427 (Theromora, in part).
Steiner, H. 1922 A, 339, 341, fig. 5.
Steinmann, G. 1908 A, 210 ("pelycosaurier").
Stromer, E. 1912 A, 106 (Theromora, in part).
Sushkin, P. P. 1925 A, 180.
Thevenin, A. 1910 A, 53 ("pélycosauriens").
Thyng, F. W. 1906 A, 53, fig. K.
Tornier, G. 1913 B, 340, 374.
Versluys, J. 1912 B, 548, 550, 660, 687.
1919 A, 6, 8.
Wamich, P. 1913 A, 23 ("pelycosaurier").
Watson, D. M. S. 1912 B, 574.
1913 A, 74.
1914 A, 306 ("pelycosaurs").
1914 F, 776.
1917 B, 10, 53.
1917 C, 173, 184.
1921 B, 65, 75, 96, 98.
Wegner, R. N. 1922 A, 471.
Williston, S. W. 1908 B, 400.
1908 I, 628.
1909 A, 393, 395 ("pelycosaurs").
1910 B, 69.
1911 C, 631.
1911 F, 661.
1912 B, 639, 649.
1914 A, 16, 45.
1914 C, 66.
1914 D, 400.
1914 E, 121.
1916 B, 195, 197, 198 (Pelycosauria); 196 (Theromora, in part).
1917 B, 195, 197, 198.
1917 C, 414.
1925 B, 211, 233.
Zittel and Broili 1911 A, 193.
1923 A, 217, 231.
Zittel, Eastman, etc. 1902 A, 148.

SPHENACODONTIDÆ Marsh.

Unless otherwise indicated, the authors, as cited, use for this family the name Clepsydropidæ. Sphenacodontidæ has priority.

Marsh, O. C. 1878 C, 410 (Sphenacodontidæ).
Hay, O. P. 1902 A, 431.
Abel, O. 1919 A, 356 (Sphenacodontidæ).
Arldt, T. 1912 A, 656, 662.
Broili, F. 1904 A, 80, 101.
Broili and Fischer 1917 A, 412.
Case, E. C. 1903 B, 1.
1907 E, 36, 71 (Clepsydropidæ); 37, 72, 73 (Clepsydropinæ).
1908 C, 576, 578.
1915 A, 96, 102, 122.
1926 B, 193 (Sphenacodontidæ).
Case and Williston 1913 C, 70.
Cope, E. D. 1884 I, 38.
Hay, O. P. 1912 C, 562.
Huene, F. 1902 A, 69.
1925 I, 245.
Jaekel, O. 1905 A, 192 ("naosauriden").
Lydekker, R. 1912 C, 110.
Nopcsa, F. 1922 A, 109 ("sphenacodontiden").
1923 H, 60, 68, 99, 123, 151 (Clepsydropidæ, with subfams. Clepsydropinæ, Dimetrodontinæ, Sphenacodontinæ).
1928 A, 171 (Sphenacodontinæ, Clepsydropinæ).
Osborn, H. F. 1903 D, 468.
Romer, A. S. 1922 B, 590.
Watson, D. M. S. 1917 C, 174.
Williston, S. W. 1910 F, 592.
1911 B, 71, 72 (Sphenacodontidæ).
1912 B, 649.
1915 C, 588 (Sphenacodontidæ).
1916 B, 224 (Sphenacodontidæ).
Zierler, F. E. 1905 A, 512 ("clepsydropiden").
Zittel and Broili 1911 A, 194.
1923 A, 233.
Zittel, Eastman, etc. 1902 A, 148.

Sphenacodon Marsh. Type *S. ferox* Marsh.

Hay, O. P. 1902 A, 434.
Abel, O. 1919 A, 356.
Brauns, D. 1890 A, 152.
Case, E. C. 1915 A, 140.
Eastman, C. R. 1913 B, 678.
Gregory, W. K. 1920 A, 122, 230, fig. 39.
Hay, O. P. 1912 C, 562.
Huene, F. 1925 I, 221.
Matthew, W. D. 1908 D, 818.
Nopcsa, F. 1923 E, 1053.
1923 H, 52-54.
Romer, A. S. 1928 C, 257, 258.
Watson, D. M. S. 1917 C, 174.
Wegner, R. N. 1922 A, 456, 471, fig. 36.
Williston, S. W. 1911 B, 21, 78, pl. xxxv, fig. 5; pl. xxxvii, fig. 3 (Sphenacodon or Ophiacodon).
1911 D, 379.
1914 D, 386.
1915 A, 578.
1915 C, 558.
1916 B, 225, fig. 71.
1917 B, 650.
1917 C, 416.
1918 B, 91, 104, pl. iv; text-figs. 15, 17, 18.

Williston, S. W. 1925 A, 47, 101, figs. 33, 79.
1925 B, 228, fig. 164*b*.
Zittel and Broili 1923 A, 235.

Sphenacodon ferox Marsh.

Hay, O. P. 1902 A, 434.
Brauns, D. 1890 A, 152.
Broom, R. 1914 C, 141, fig. 7.
Case, E. C. 1907 E, 66.
1915 A, 98.
Case and Williston 1913 C, 61, figs. 38-45.
Huene, F. 1925 I, 236, text-fig. 8.
Watson, D. M. S. 1921 B, 71, fig. 21.
Williston, S. W. 1911 B, 78, pl. xxxiv, figs. 1, 2; pl. xxxvii, fig. 2.
1917 B, 650, fig. 1.
Williston and Case 1913 A, 6.
Permian; New Mexico.

Sphenacodon sp. indet.

Case, E. C. 1916 B, 709. Permo-Carboniferous; New Mexico.

CLEPSYDROPS Cope. Type *C. collettii* Cope.

Hay, O. P. 1902 A, 431.
Abel, O. 1919 A, 356.
Arldt, T. 1908 A, 570.
Beede, J. W. 1922 A, 681.
Broili, F. 1904 A, 80, 101.
Broom, R. 1903 D, 286.
Case, E. C. 1898 C, 624.
1907 E, 21, 37, 73, pl. v, figs. 9, 10; pl. vii, figs. 4, 5, 9-13, 18, 19; pl. xxiii, fig. 14.
1908 C, 576.
1908 D, 560, fig. 3.
1915 A, 107, 111, 140.
Cope, E. D. 1878 LL, 482.
1880 U, 144, 162.
Cummins, W. F. 1908 A, 745.
Douthitt, H. 1917 A, 239.
Gadow, H. 1901 B, 308.
Hay, O. P. 1912 C, 562.
Heilprin, A. 1887 A, 154.
Huene, F. 1914 E, 499.
1919 A, 180.
1925 I, 245.
Kingsley, J. S. 1900 A, 254.
Koken, E. 1898 C, 328.
Lydekker, R. 1912 C, 110.
Matthew, W. D. 1908 B, 185.
Nopcsa, F. 1923 H, 52, 53, 70-82, 85.
Osborn, H. F. 1903 D, 476.
1917 B, 188.
Perrier, E. 1920 A, 308.
Romer, A. S. 1925 A, 180.
1927 B, 682.
Schuchert, C. 1910 A, 570.
Thevenin, A. 1910 A, 56.
Watson, D. M. S. 1917 C, 174.
Williston, S. W. 1911 B, 72, pl. xxx, figs. 1-5, 10, 11?; pls. xxxi, xxxii, figs. 1, 9?.
1915 A, 578.
1915 C, 558.
1916 B, 225.
1925 B, 233.
Zittel and Broili 1911 A, 194.
1923 A, 233.
Zittel, Eastman, etc. 1902 A, 148.

Clepsydrops collettii Cope.

Hay, O. P. 1902 A, 431.
Case, E. C. 1900 A, 711, pl. ii, figs. 1-3.
1907 E, 37, 40, pl. vii, figs. 1-3, 6-8.
Dames, W. 1899 C, 366.
Romer, A. S. 1925 A, 181.
Williston, S. W. 1897 K, 395.
Permian; Illinois.

Clepysdrops natalis Cope.

Hay, O. P. 1902 A, 431.
Beede, J. W. 1907 A, 118.
Case, E. C. 1903 A, 92, figs. 6, 7.
1907 E, 42, 90, 96, pl. iv, figs. 7, 8; pl. v, figs. 1-5, 7; pl. vi; text-fig. 26*a*.
1915 A, 98, 140, 157, text-fig. 27.
Cope, E. D. 1878 LL, 482.
Cummins, W. F. 1908 A, 743.
Huene, F. 1911 D, 36, fig. 42.
Thevenin, A. 1910 A, 58, fig. 33.
Williston, S. W. 1910 F, 586.
1911 B, 72, 73.
Pennsylvanian (Upper); Illinois: Permian (Wichita, Clear Fork); Texas: (Garrison?); Kansas.

Clepsydrops pedunculatus Cope.

Hay, O. P. 1902 A, 432.
Case, E. C. 1900 A, 713, pl. ii, figs. 4, 5.
1907 E, 41, pl. vii, figs. 14, 15.
Cope and Matthew 1915 A, pl. iii, fig. 26 (This species?).
Permian; Illinois.

Clepsydrops vinslovii Cope.

Hay, O. P. 1902 A, 432.
Case, E. C. 1900 A, 714, pl. ii, fig. 7.
1907 E, 42, pl. vii, figs. 16, 17.
Permian; Illinois.

Clepsydrops sp. indet.

Phillips, W. B. 1912 A, 41 (Clepshydrops).
Permian (Wichita); Texas.

DIMETRODON Cope. Type *D. incisivus* Cope.

Hay, O. P. 1902 A, 432.
Abel, O. 1919 A, 356.
Ameghino, F. 1909 A, 49, fig. 33.
Anonymous 1905 F, 7, fig. 2.
1912 A, 519.
Arldt, T. 1908 A, 570.
Beede, J. W. 1922 A, 681.
Boas, J. E. V. 1914 C, 262.
Broili, F. 1904 A, 62, 102.
Broili, F. 1904 C, 270.
1926 C, 36, fig. 10 (Naosaurus).
Broom, R. 1901 A, 183.
1903 D, 286, 291.
1906 B, 594.
1908 A, 1056.
1910 A, 224, fig. 20.
1910 C, 473.
1913 K, 12.

Broom, R. 1914 C, 136, 137, figs. 3, 4, 5.
1915 C, 9.
1922 B, 458.
Case, E. C. 1897 C, 594.
1898 C, 623.
1902 A, 48.
1902 C, 258.
1903 B, 3.
1903 C, 398.
1904 A, 304.
1904 B, 312, fig. 1.
1905 C, 5.
1907 E, 43, 74, 95, pl. xiv, fig. 8; pl. xv, figs. 1, 4; pl. xxvii, figs. 11-13; pl. xxxiii, figs. 6, 10, 15; text-figs. 25, 41.
1908 D, 560, figs. 4-6.
1914 B, 117.
1914 C, 213, fig. 4.
1915 A, 107, 108, 111-113, 115, 141.
1919 B, 200.
1924 B, 7.
Case and Williston 1913 C, 62, 68.
Cummins, W. F. 1908 A, 745.
Fejérváry, G. J. 1921 C, 9.
Fuchs, H. 1906 A, 13, 73.
1909 B, 130.
1911 B, 377, fig. 10.
Gadow, H. 1901 B, 308.
Geol. Mag. 1912 A, 519.
Gilmore, C. W. 1918 B, 58 ("Dimetrodon").
1919 B, 20.
1919 D, 525.
1920 C, 278.
1926 A, 29.
Gregory, W. K. 1913 E, 28.
1915 D, 375, fig. 15.
1920 B, 230.
1926 A, 206.
Gregory and Camp 1918 A, 522.
Hanson, F. B. 1920 B, 336, 337.
Haughton, S. H. 1918 A, 205, 214.
Heilprin, A. 1887 A, 154.
Heim, A. 1905 A, 194.
Hoffmann, C. K. 1890 B, 1302.
Huene, F. 1902 A, 35.
1905 A, 338, fig. 34.
1911 D, 30, fig. 31.
1913 B, 356, 378.
1913 D, 519, figs. 1-4.
1919 A, 178.
1925 I, 221.
1926 I, 52 (Dimetrodon); 55 (Naosaurus).
Jaekel, O. 1905 A, 193, fig. 1.
1910 B, 526.
1910 C, 332.
1911 A, 144, fig. 157 (Embolophorus).
Kingsley, J. S. 1925 A, 144, 253, figs. 153, 268 (Dimetrodon); 45, fig. 51 (Naosaurus).
Koken, E. 1898 C, 328.
Lakjer, T. 1927 A, 317.
Lankester, E. R. 1905 A, 210, fig. 152.
Lydekker, R. 1915 A, 237.
1915 C, 635.
Matthew, W. D. 1907 E, 36, figs. 1, 2 ("Naosaurus").
1908 B, 184.
1908 D, 817, 818.
Matthew, W. D. 1909 G, 91, fig. 1.
1923 C, 404.
Miner, R. W. 1925 A, 183, fig. 20.
Moodie, R. L. 1912 E, 34.
1917 B, 382, fig. 5.
1918 C, 267, fig. 7.
1921 A, 333 (This genus?).
1923 B, 116, pls. xiv, xv.
1926 A, 67, 84, 94, pl. xii; text-fig. 6.
Nopcsa, F. 1923 E, 1053.
1923 H, 12, 51-55, 58, 59, 70, 85, 90, 153, 170, pl. ii, fig. 2.
1926 A, 636, 639; text-fig. 3.
Osborn, H. F. 1903 D, 476, fig. 13.
1907 D, 265.
1917 B, 188, 189, fig.
1918 D, 685.
Perrier, E. 1920 A, 308.
Pompeckj, J. F. 1925 A, 17.
Reynolds, S. H. 1897 A, 276.
Rogers, A. F. 1924 A, 546, pl. xxix, fig. 1 (Naosaurus).
Romer, A. S. 1922 A, 40, fig. 1.
1922 B, *passim*, pls. xxviia-xxx; xxxii; xxxv; xxxvi; xxxviiia-xlvi; text-figs. 2, 3, 6, 7.
1923 C, 605, 608, fig. 2.
1924 C, 98.
1926 A, 59.
1927 B, 673, figs. 6-9.
1927 C, 231, fig. 1.
1928 C, 257.
Schuchert, C. 1910 A, 570.
Schuchert and Levene 1927 A, 292, fig.
Sewertzoff, A. N. 1908 A, 251, fig. 23.
Sixta, V. 1905 A, 675.
Stappenbeck, R. 1905 A, 388.
Steiner, H. 1921 A, 537.
Sternberg, C. H. 1903 E, 96.
1909 C, 217.
Stromer, E. 1915 B, 20.
Thevenin, A. 1909 A, 1225.
1910 A, 55.
Thyng, F. W. 1906 A, 54, fig. L.
Tornier, G. 1913 B, 341, fig. 10.
Versluys, J. 1910 B, 200.
1912 A, 499.
1912 B, 550, 585, fig. 2.
Watson, D. M. S. 1912 B, 574, fig. 1.
1913 A, 74.
1914 A, 306.
1914 B, 85.
1914 D, 178.
1914 F, 777.
1914 H, 1014.
1914 J, 1026, fig. 4.
1916 A, 317, 343.
1916 D, 645.
1917 B, 11, fig. 4.
1917 C, 174, 184.
1919 A, 298, fig. 15.
1921 B, 65, 70, 73, 75, 91.
Wegner, R. N. 1922 A, 464.
Williston, S. W. 1904 B, 177, text-fig. 5.
1908 A, 148.
1910 A, 267.
1910 B, 75.

Williston, S. W. 1910 F, 586.
1911 B, 54, 76.
1911 D, 379.
1911 F, 662, 663.
1914 A, 36, figs. 19, 28.
1914 C, 67.
1914 D, 386, 414, 415, fig. 14.
1915 A, 578.
1915 C, 556, 558, figs. 3, 4.
1916 A, 173.
1916 B, 224, figs. 66-70.
1917 B, 650.
1917 C, 415.
1918 A, 76, figs. 1, 3.
1918 B, 95, fig. 16.
1925 A, 25, 98, 101, 102, 104, 112, 133, figs. 11, 76, 79, 106, 114 (Dimetrodon); 158, fig. 129 (Naosaurus).
1925 B, 229, 230, 233, figs. 165, 166 (Dimetrodon); 233 (Naosaurus).
Williston and Case 1913 B, 42.
1913 D, 80, 81.
Woodward, A. S. 1922 C, 27.
Zittel and Broili 1911 A, 194.
1923 A, 234.
Zittel, Eastman, etc. 1902 A, 148.

Dimetrodon dollovianus (Cope).

Hay, O. P. 1902 A, 433 (Embolophorus).
Beede, J. W. 1907 A, 119 (Embolophorus).
Broili, F. 1904 A, 89, pl. vii, fig. 2 (Embolophorus).
1904 C, 273 (Embolophorus).
Case, E. C. 1902 B, 67 (Embolophorus. This species?).
1903 B, 1, figs. 1, 3-22 (Embolophorus).
1903 C, 398, fig. 4 (Embolophorus).
1905 C, 6.
1907 E, 51, 75, 96, 128, pl. xvi, figs. 8-10; pl. xxiii, figs. 1, 2; pl. xxiv, fig. 1; text-figs. 35, 39, 40, 54, 56.
1915 A, 98.
Cummins, W. F. 1908 A, 740, 741, 743.
Gadow, H. 1896 A, 41, fig. 39 (Embolophorus dolloverianus).
Huene, F. 1905 A, 337, figs. 21, 23, 24, 29, 45, 46 (Embolophorus).
1911 D, 35.
Romer, A. S. 1927 B, 674, figs. 1-5 (This species?).
Sewertzoff, A. N. 1908 A, 251, 293 (Embolophorus).
Stappenbeck, R. 1905 A, 388, 420 (Embolophorus).
Zittel and Broili 1923 A, 234, fig. 334.
Permian (Wichita, Clear Fork); Texas.

Dimetrodon giganhomogenes Case.

Case, E. C. 1907 E, 47, 74, 123, pl. xxi, fig. 9; pl. xxii; pl. xxiv, fig. 2; text-figs. 14, 36, 51-53.
1915 A, 98.
Case and Williston 1913 C, 67.
Cummins, W. F. 1908 A, 740, 744.
Permian (Clear Fork); Texas.

Dimetrodon gigas Cope.

Hay, O. P. 1902 A, 432.
Bassler, R. S. 1919 A, 61.
Beede, J. W. 1907 A, 118.
Broili, F. 1904 A, 91.
Broili, F. 1912 A, 153.
Case, E. C. 1904 A, 304, figs. 1-5.
1904 C, 253 ("pelycosaur").
1905 C, 6, pls. ii, iv; pl. vi, fig. 2; pl. vii; text-figs. 3-5.
1907 E, 46, 47, 74, 96, 116, pls. xvii-xix; pl. xxi, figs. 1-8; text-figs. 14, 30, 31, 34, 37, 42-50.
1915 A, 98.
1915 C, 475, figs. 3-5.
1924 B, 7, figs. 1-4.
Cummins, W. F. 1908 A, 740-743.
Gaupp, E. 1911 D, 641.
Gilmore, C. W. 1919 B, 20, figs. 2, 3.
1919 D, 525, pls. lxx-lxxiii; text-figs. 1-8.
1920 C, 278.
1921 F, 66 ("Dimetrodon").
Gregory and Camp 1918 A, pl. xlviii.
Huene, F. 1905 A, 345, fig. 37.
1909 F, 585, fig. [illegible].
1911 D, 30, figs. 30, 32, 37.
Joleaud, L. 1920 A, 492, fig. 7.
Romer, A. S. 1927 B, 683.
Steiner, H. 1922 A, 341.
Tornier, G. 1913 B, 343, fig. 12.
Versluys, J. 1912 B, 661, figs. t^2, u^2.
Watson, D. M. S. 1921 B, 71, fig. 21.
Wegner, R. N. 1922 A, 471.
Woodward, A. S. 1920 A, 118, fig. 1.
Zittel and Broili 1911 A, 195, fig. 327.
1923 A, 234, fig. 336.
Permian (Wichita?, Clear Fork); Texas: (Enid); Oklahoma.

Dimetrodon incisivus Cope.

Hay, O. P. 1902 A, 431 (Clepsydrops limbatus); 432 (Dimetrodon incisivus; D. rectiformis; D. semiradicatus).
Abel, O. 1912 F, 387, fig. 274.
1919 A, 357, figs. 275, 276, 278.
1920 A, 361.
1921 A, 304, fig. 117.
Ballou, W. 1897 A, 16, fig. 13.
Beede, J. W. 1907 A, 118 (D. incisivus, D. rectiformis); 120 (D. semiradicatus).
Broili, F. 1904 A, 91, 94, pl. xiii, fig. 4.
1904 C, 273, pl. xvii, figs. 1-3.
Broom, R. 1910 A, 225, fig. 19.
1913 G, 337, pl.
Case, E. C. 1897 C, 594.
1903 A, 94, fig. 8.
1904 A, 304, fig. 6.
1904 B, 312.
1905 C, 6, pls. i, iii; pl. v, fig. 1; pl. vi, fig. 1 (This species?); pl. v, figs. 2-7; text-figs. 1, 2.
1907 E, 39, 47, 75, 127, pls. viii-xii; pl. xiii, figs. 2, 3; pl. xiv, figs. 1-7, 9; pl. xv, figs. 2, 3, 5; pl. xvi, figs. 1-7; pl. xx; pl. xxiii, fig. 3; pl. xxvi, fig. 6; pl. xxxiii, figs. 1, 9; text-figs. 4, 27-29, 32, 33, 38, 41, 57; 40, 127 (Clepsydrops limbatus a syn.).
1910 C, 190, pls. xv-xix; text-figs. 1-4.
1915 A, 98, 141, 142, 157, text-fig. 28.
1915 C, 474, figs. 1, 2, 6.
1916 A, 18 ("Dimetrodon").
1924 B, 7, fig. 5.

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Cope and Matthew 1915 A, xxii.
Cummins, W. F. 1908 A, 740, 741 (D. incisivus); 743 (Clepsydrops limbatus).
Gilmore, C. W. 1919 B, 20.
  1919 D, 532.
Gregory, W. K. 1922 A, 14, fig. 8.
Huene, F. 1911 D, 29, figs. 34-36, 38, 39, 41.
  1913 B, 356, figs. 42-47.
  1919 A, 178, pl. vi.
Lakjer, T. 1927 A, 316, fig. 123.
Matthew, W. D. 1908 D, 818 (D. incisivus. Clepsydrops limbatus).
Stappenbeck, R. 1905 A, 388.
Stromer, E. 1912 A, 117, fig. 115.
Sushkin, P. P. 1927 A, 297, 308, figs. 27, 28, 38.
Thevenin, H. 1910 A, 56.
Versluys, J. 1910 B, 200.
  1912 B, 551, figs. f, u.
  1919 A, 9, fig. 7.
Williston, S. W. 1910 F, 596, text-fig. 3.
  1911 B, 76, text-fig. 24.
  1914 D, 413, fig. 13.
  1925 A, 30, fig. 16.
Woodward, H. 1904 B, 142.
Zittel and Broili 1911 A, 195, fig. 326.
  1923 A, 234, fig. 335.
  Permian (Wichita, Clear Fork); Texas: (Enid); Oklahoma.

Dimetrodon longiramus Case.

Case, E. C. 1907 E, 56, 57, 75, text-figs. 15, 16.
  1915 A, 99, pl. xxii, fig. 11.
Cummins, W. F. 1908 A, 741.
  Permian (Wichita); Texas.

Dimetrodon macrospondylus (Cope).

Hay, O. P. 1902 A, 431 (Clepsydrops).
Abel, O. 1919 A, 359, fig. 277.
Beede, J. W. 1907 A, 119 (Clepsydrops).
Case, E. C. 1907 E, 47, 52, 75, 131, pl. xxv, figs. 1, 3-5; pl. xxvi; text-figs. 14, 58, 59.
  1915 A, 99.
Cummins, W. F. 1908 A, 741.
Huene, F. 1911 D, 35.
  Permian (Wichita); Texas.

Dimetrodon obtusidens (Cope).

Hay, O. P. 1902 A, 433 (Theropleura).
Beede, J. W. 1907 A, 119 (Theropleura).
Case, E. C. 1907 E, 54, 75, 134, pl. xxv, figs. 2, 6; pl. xxxiii, figs. 2, 11; text-figs. 60, 61.
  1915 A, 99.
  Permian (Wichita, Clear Fork?); Texas.

Dimetrodon platycentrus Case.

Case, E. C. 1907 E, 54, 75, 134.
  1915 A, 99.
Cummins, W. F. 1908 A, 741.
  Permian (Wichita); Texas.

Dimetrodon sp. indet.

Phillips, W. B. 1912 A, 41. Permian (Wichita); Texas.
Romer, A. S. 1927 A, 232. Permian; Texas.
Watson, D. M. S. 1919 A, 298, fig. 15.
Wegeman, C. H. 1915 A, 25, 26. Permian (Wichita); Oklahoma.

TETRACERATOPS Matthew. Type *T. insignis* Matthew.

Matthew, W. D. 1908 B, 183.
Abel, O. 1912 F, 576.
Broili and Fischer 1917 A, 413.
Huene, F. 1925 I, 246.
Lull, R. S. 1909 B, 93.
Nopcsa, F. 1923 H, 52, 169, 170, 188.
  1928 A, 171.
Watson, D. M. S. 1917 C, 174.
Williston, S. W. 1915 A, 576.
  1916 B, 225, 234.
  1925 A, 9.
  1925 B, 233.
Zittel and Broili 1911 A, 196.
  1923 A, 235.

Tetraceratops insignis Matthew.

Matthew, W. D. 1908 B, 183, fig. 1.
Abel, O. 1912 F, 577, fig. 447.
  1919 A, 361, fig. 279.
Case, E. C. 1915 A, 99.
Huene, F. 1925 I, 246, text-fig. 24.
Lydekker, R. 1909 C, 467.
  Permian (Clear Fork?, Wichita?); Texas.

BATHYGNATHUS Leidy. Type *B. borealis* Leidy.

Hay, O. P. 1902 A, 491.
Brauns, D. 1890 A, 162.
Case, E. C. 1905 D, 52.
Heilprin, A. 1887 A, 160.
Huene, F. 1905 A, 343.
  1914 G, 20, 21.
  1925 I, 241.
Huxley, T. H. 1869 K, 146.
  1870 G, 479.
  1870 H, 507.
  1870 I, 23.
Nopcsa, F. 1901 A, 250.
  1923 H, 52.
  1928 A, 171.
Watson, D. M. S. 1917 C, 175.
Williston, S. W. 1916 B, 235.
  1925 B, 233.
Zittel and Broili 1911 A, 196.

Bathygnathus borealis Leidy.

Hay, O. P. 1902 A, 491.
Case, E. C. 1905 D, 52.
  1907 E, 63.
  1915 A, 86, 99.
Ells, R. W. 1906 A, 370.
Giebel, C. G. 1855 C, 139.
Huene, F. 1906 B, 101.
Jäger, G. 1856 A, 959 (Pachygnathus).
Lambe, L. M. 1904 C, 14, 20, 36, 48.
  1912 A, 6.
Ruschenberger and Tryon 1879 A, 13.
Watson, L. W. 1912 A, 146-148.
  Permian? or Triassic?; Prince Edward Island.

Suborder EDAPHOSAURIFORMES, new name.

Case, E. C. 1915 A, 99, 122, 142 (Edaphosauria).
Huene, F. 1925 D, 229 (Edaphosauria).
Jaekel, O. 1910 B, 527 (Naosauri).
1910 C, 332 (Naosauri).
1911 A, 144 (Naosauri).
Nopcsa, F. 1922 A, 109 ("edaphosaurier").
1923 H, 60, tab., pl. ii, fig. 3 (Edaphosauria); 123 (Edaphosauroidea).
1928 A, 172 (Edaphosauroidea).
Williston, S. W. 1916 B, 195 (Edaphosauria).
1925 B, 233 (Edaphosauria).

EDAPHOSAURIDÆ Cope.

Cope, E. D. 1882 B, 450.
Hay, O. P. 1902 A, 431 (Clepsydropidæ).
Abel, O. 1919 A, 367.
Arldt, T. 1908 A, 570 ("edaphosauriden," "naosauriden").
1912 A, 656.
Case, E. C. 1906 A, 19.
1907 E, 68, 72 (Edaphosauridæ); 58, 72, 74, 138 (Naosaurinæ).
1908 C, 578 (Naosauridæ).
1915 A, 99, 102, 122.
1923 A, 517.
1926 B, 193.
Huene, F. 1925 I, 245.
Nopcsa, F. 1923 H, 60, 123, 151, 170, 188.
1928 A, 172.
Romer, A. S. 1922 B, 590.
Watson, D. M. S. 1917 C, 174.
Williston, S. W. 1911 B, 71.
1911 C, 631.
1912 B, 649.
1915 C, 559.
1916 B, 230.
1918 B, 99.
1925 A, 46.
1925 B, 230.
Williston and Case 1913 D, 71.
Zittel and Broili 1911 A, 194 (Clepsydropidæ).
1923 A, 235.

EDAPHOSAURUS Cope. Type *E. pogonias* Cope.

Hay, O. P. 1902 A, 432 (Naosaurus); 433 (Edaphosaurus).
Abel, O. 1908 D (217), (Naosaurus).
1919 A, 370 (Edaphosaurus); 904 (Naosaurus).
1920 A, 362 (Naosaurus).
Anonymous 1907 B, 36, figs. 1, 2 (Naosaurus).
1912 A, 519.
Beasley, W. L. 1907 A, 368, 5 figs. (Naosaurus).
Boas, J. E. V. 1914 C, 262, fig. 39.
Branson, E. B. 1911 A, 137.
Broili, F. 1904 A, 102 (Edaphosaurus, Naosaurus).
1908 F, 61 (Naosaurus).
1911 A, 132 (Naosaurus).
1924 A, 11.
Broom, R. 1903 D, 291 (Naosaurus).
1910 A, 221.
1913 K, 12.
1914 C, 137.
Case, E. C. 1898 C, 624 (Naosaurus).
1902 B, 63, 66 (Naosaurus).
1904 A, 304 (Naosaurus).
1906 A, 19.
1907 E, 69, 144, 155, text-fig. 65 (Edaphosaurus); 58, 75, 138, 145, pl. xxx, fig. 3; pl. xxxiii, figs. 4, 7 (Naosaurus).
1908 B, 238 (Naosaurus).
1908 C, 580 (Naosaurus).
1908 D, 561, figs. 7-10 (Naosaurus).
1914 B, 117 (Edaphosaurus, Naosaurus).
1914 C, 213, fig. 3.
1915 A, 11, 112, 115, 122, 142.
1915 D, 797 [E. (Naosaurus)].
1918 A, 502.
1918 B, 1.
1919 B, 271.
1926 B, 193.
Cummins, W. F. 1908 A, 745 (Edaphosaurus, Naosaurus).
Depéret, C. 1912 A, 704 (Naosaurus).
Douthitt, H. 1917 A, 239.
Drevermann, F. 1915 A, 405 (Edaphosaurus, Naosaurus).
Gadow, H. 1901 B, 308 (Naosaurus).
Geol. Mag. 1912 A, 519.
Gilmore, C. W. 1926 A, 29.
Gregory, W. K. 1920 A, 122, 230, fig. 37 (Naosaurus); 230 (Edaphosaurus).
Heim, A. 1905 A, 194 (Naosaurus).
Huene, F. 1905 A, 337 (Naosaurus).
1908 A, 433 (Naosaurus).
1913 B, 363, 377.
1919 A, 178 (Naosaurus a syn.).
1922 G, 451.
1925 I. 223.
1926 I, 55.
Jaekel, O. 1905 A, 193, fig. 2 (Naosaurus).
1910 B, 526, fig. 1 (Naosaurus).
1910 C, 332 (Naosaurus).
1911 A, 145, fig. 158 (Naosaurus).
1911 D, 36 (Naosaurus).
Knipe, H. R. 1912 A, 63, fig.
Loomis, F. B. 1921 A, 194.
Lucas, F. A. 1902 A, 132, fig. (Naosaurus).
Lull, R. S. 1910 A, 5 (Naosaurus).
1917 B, 221.
Lydekker, R. 1912 C, 19 (Naosaurus).
1915 C, 635.
Matthew, W. D. 1908 D, 817 (Naosaurus).
Moodie, R. L. 1923 B, 561, pls. xiv, xviii.
1926 A, 67.
Nat. Sci. 1898 A, 230 (Naosaurus).
Nopcsa, F. 1923 H, 12, 51-55, 58, 59, 68, 153, 193, pl. ii, fig. 3.
1928 A, 172 (Edaphosaurus, Naosaurus).
Osborn, H. F. 1903 D, 476.
1907 D, 265, fig. 2 (Naosaurus).
1917 B, 221 (Naosaurus).
Pompeckj, J. F. 1925 A, 17.

Romer, A. S. 1922 B, 547, 557, pl. xxxvii (Edaphosaurus); pl. xlvi (Naosaurus).
1926 A, 59.
1927 B, 678, 680.
1928 C, 257, 258.
Schuchert, C. 1910 A, 570 (Edaphosaurus, Naosaurus).
Sternberg, C. H. 1909 C, 227 (Naosaurus).
1917 A, 185 ("reptile").
Stromer, E. 1915 B, 18, 20 (Edaphosaurus, Naosaurus).
Thevenin, A. 1909 A, 1225 (Naosaurus).
1910 A, 56.
Tornier, G. 1913 B, 341, figs. 10, 11.
Versluys, J. 1912 B, 588, 664.
1919 A, 10, 11, 25.
Watson, D. M. S. 1913 A, 74.
1914 D, 179.
1914 F, 777.
1916 D, 637, 647.
1917 C, 174, 184 (Edaphosaurus, Naosaurus).
Williston, S. W. 1910 B, 82.
1910 F, 586 (Naosaurus).
1911 B, 75, text-fig. 23 (Naosaurus); 77 Edaphosaurus).
1911 C, 631.
1911 D, 380 (Naosaurus).
1914 A, 23, fig. 7.
1915 A, 575, 576, 578.
1915 C, 559.
1916 B, 231, figs. 80, 81 (Edaphosaurus); 231 (Naosaurus).
1918 B, 95, figs. 8, 14 (Edaphosaurus); 95 (Naosaurus).
1925 A, 24, 127, fig. 98.
Williston and Case 1913 D, 71, 74, 81, figs. 50, 51 (Edaphosaurus, Naosaurus).
Zittel and Broili 1911 A, 195 (Naosaurus); 196 (Edaphosaurus).
1923 A, 235 (Edaphosaurus, Naosaurus).
Zittel, Eastman, etc. 1902 A, 149 (Naosaurus).

Edaphosaurus claviger (Cope).

Unless otherwise indicated the authors, as quoted, refer this species to *Naosaurus.*

Hay, O. P. 1902 A, 432.
Abel, O. 1909 F, 455, fig. 1.
1912 F, 571, fig. 444.
1919 A, 372, fig. 292.
Ballou, W. H. 1897 A, 13, 16, fig.
Beede, J. W. 1907 A, 120.
Broili, F. 1904 C, 272.
Case, E. C. 1907 E, 59, 75, 139, pl. xxviii, fig. 1; pl. xxix, fig. 1; pl. xxx, figs. 1, 2; pls. xxxi, xxxv; text-figs. 63-65.
1915 A, 99 (Edaphosaurus).
Cummins, W. F. 1908 A, 743, 744.
Gadow, H. 1901 B, 308.
Huene, F. 1925 I, 242, text-figs. 18, 19 (Naosaurus).
Jaekel, O. 1910 B, 527.
Lydekker, R. 1912 C, 110.
Miner, R. W. 1925 A, 183, fig. 20 (Naosaurus).
Osborn, H. F. 1904 F, 20.
1907 D, 265, pl. ix.
Schmalhausen, J. 1917 A, 107, fig. *n.*
Stappenbeck, R. 1905 A, 388.
Sternberg, C. H. 1909 C, 234, figs. 32, 33.
Williston, S. W. 1910 B, 95, 96, figs. 10-13.
Williston and Case 1913 D, 71, 72 (Edaphosaurus).
Woodward, A. S. 1910 C, 12, fig. 1.
1922 C, 27, fig. 23 (Naosaurus).
Zittel and Broili 1911 A, 195, fig. 328.
1923 A, 235, fig. 337.
Zittel, Eastman, etc. 1902 A, 149, fig. 239.
Permian (Wichita, Clear Fork); Texas: (Enid); Oklahoma.

Edaphosaurus cruciger (Cope).

Hay, O. P. 1902 A, 432 (Naosaurus).
Abel, O. 1909 F, 476 (Naosaurus).
1919 A, 370, fig. 290.
1920 A, 361, fig. 570.
Beede, J. W. 1907 A, 119 [N. (Dimetrodon)].
Case, E. C. 1907 E, 60, 75, 146 (Naosaurus).
1914 B, 117-121, figure.
1915 A, 99, 143, 157, 176, text-figs. 29, 50.
1915 C, 474.
1918 B, 1, pls. i, ii.
Cummins, W. F. 1908 A, 740, 741, 743 (Naosaurus).
Huene, F. 1925 I, 243, text-fig. 20.
Jaekel, O. 1910 B, 534 (Naosaurus).
Lull, R. S. 1917 B, 498, fig. 149.
Lydekker, R. 1915 C, 635 (E. crucifer).
Moodie, R. L. 1923 B, 116, fig. 8, pl. xv.
Osborn, H. F. 1917 B, 188, 189, fig.
Williston and Case 1913 D, 72.
Permian (Wichita, Clear Fork); Texas.

Edaphosaurus microdus Cope.

Hay, O. P. 1902 A, 432 (Naosaurus).
Abel, O. 1908 D (216), fig. 4 (Naosaurus).
1919 A, 371, figs. 291, 292 (Naosaurus).
Beede, J. W. 1907 A, 119 (Naosaurus).
Broili, F. 1904 A, 81 (Syn. of Naosaurus claviger).
Case, E. C. 1907 E, 61, 71 (Edaphosaurus); 75, 146, pl. xxviii, fig. 3; pl. xxix, fig. 2; pl. xxxii; text-fig. 65 (Naosaurus).
Cummins, W. F. 1908 A, 743 (Naosaurus).
Williston and Case 1913 D, 72.
Permian; Texas.

Edaphosaurus novomexicanus Williston and Case.

Williston and Case 1913 A, 6.
Case, E. C. 1915 A, 99, 130, 144, 151.
Williston, S. W. 1925 A, 128, fig. 92.
Williston and Case 1913 D, 72, 74, text-figs. 47-49.
Permian; New Mexico.

Edaphosaurus pogonias Cope.

Hay, O. P. 1902 A, 433.
Abel, O. 1919 A, 369, fig. 289.
Beede, J. W. 1907 A, 119.
Broom, R. 1910 A, 221, figs. 16-18.
Case, E. C. 1903 A, 91, figs. 4, 5.
1906 A, 19, pl. vii; text-figs. 1-4, 6.
1907 E, 69, 151, pl. xxxiv; text-figs. 66-71.
1914 B, 117.
1915 A, 99.
Cummins, W. F. 1908 A, 743.
Drevermann, F. 1915 A, 405.
Huene, F. 1913 B, 363, figs. 48, 49 [Naosaurus (Edaphosaurus)].
1925 I, 242, text-fig. 21.

Versluys, J. 1919 A, 10, fig. 8 (This genus?).
Watson, D. M. S. 1916 D, 637, figs. 1-4.
Williston, S. W. 1918 B, 95.
Williston and Case 1913 D, 72, fig. 46 (This species?).
Permian (Wichita, Clear Fork); Texas.

Edaphosaurus raymondi Case.

Case, E. C. 1908 B, 238, pl. lix, fig. 3; text-fig. 7 (Naosaurus?).
1915 A, 99, 144.
Pennsylvanian (Upper); Pennsylvania.

Edaphosaurus sp. indet.

Case, E. C. 1902 B, 63, 66 (Naosaurus). Permian; Oklahoma.
Phillips, W. B. 1912 A, 41 (Naosaurus). Permian (Wichita); Texas.
Romer, A. S. 1927 A, 232. Permian; Texas.
Stauffer and Schroyer 1920 A, 142, 147, pl. xiii, figs. 45, 46. Permian (Creston Reds); Ohio.

Suborder CASEIFORMES, new name.

The writers, as cited, employ the name Caseasauria.
Case, E. C. 1915 A, 99, 122, 144.
Nopcsa, F. 1923 H, 9.
Watson, D. M. S. 1917 C, 173.
Williston, S. W. 1912 B, 649.
1916 B, 195.
1925 B, 211, 233.
Zittel and Broili 1923 A, 233.

CASEIDÆ Williston.

Williston, S. W. 1911 C, 631.
Abel, O. 1919 A, 364.
Arldt, T. 1912 A, 656.
Case, E. C. 1915 A, 99, 122.
1923 A, 517.
Eastman, C. R. 1912 C, 657.
Huene, F. 1913 B, 377.
1916 A, 63 ("caseiden").
1925 I, 245.
Nopcsa, F. 1922 A, 109.
1923 H, 60, 123, 151, 168.
1928 A, 171.
Williston, S. W. 1911 B, 71, 111.
1912 B, 649.
1915 C, 559.
1916 B, 228.
1925 B, 233.
Zittel and Broili 1923 A, 233.

CASEA Williston. Type *C. broilii* Williston.

Williston, S. W. 1910 F, 590.
Anonymous 1912 A, 520.
Broom, R. 1913 K, 12.
Case, E. C. 1915 A, 102, 144.
Geol. Mag. 1912 A, 520.
Gregory, W. K. 1920 A, 230.
1926 A, 195, 196.
Hay, O. P. 1912 C, 563, 564.
Huene, F. 1925 I, 240.
Nopcsa, F. 1923 H, 56, 58, 59, 70, 193.
1928 A, 171.
Romer, A. S. 1928 C, 257, 258.
Steiner, H. 1921 A, 537.
1922 A, 341.
Versluys, J. 1919 A, 10.
Watson, D. M. S. 1914 G, 1005.
1917 C, 173, 184.
Williston, S. W. 1911 B, 112.
1911 C, 631.
1913 C, 745.
1914 A, 55, fig. 30.
1914 C, 68.
1914 D, 386, 403.
1914 E, 121 (Cesea).
Williston, S. W. 1915 C, 559.
1916 B, 230, fig. 79.
1925 A, 167, fig. 135.
1925 B, 236, fig. 169*b*.
Zittel and Broili 1923 A, 233.

Casea broilii Williston.

Williston, S. W. 1910 F, 590, text-fig. 1.
Abel, O. 1919 A, 368, fig. 288.
1920 A, 361, fig. 569.
Broili, F. 1926 C, 36, fig. 10.
Broom, R. 1921 A, 149, fig. 9.
Case, E. C. 1915 A, 99, 145, text-fig. 30.
Hay, O. P. 1912 C, 562.
Huene, F. 1925 I, 240, text-figs. 16, 17.
Osborn, H. F. 1918 D, 686.
Williston, S. W. 1911 B, 112, frontispiece, pls. xiv-xxiii; text-figs. 28-31.
1913 C, 745, fig. 2.
1914 C, 68, fig. 10.
1914 D, 404, figs. 9, 10.
1925 A, 51, 154, figs. 41, 42.
Permian (Clear Fork); Texas.

TRICHASAURUS Williston. Type *Trispondylus texensis* Williston.

Williston, S. W. 1913 D, 366 (To replace Trispondylus, preoccupied).
Nopcsa, F. 1928 A, 171 (Trichosaurus).
Watson, D. M. S. 1914 M, 348 (Trispondylus).
1917 C, 173 (Trispondylus).
Williston, S. W. 1910 F, 592 (Trispondylus).
1911 B, 131 (Trispondylus).
1916 B, 230.
1925 B, 236.
Zittel and Broili 1923 A, 233.

Trichasaurus texensis (Williston).

Williston, S. W. 1910 F, 592, text-fig. 2 (Trispondylus).
Case, E. C. 1915 A, 99.
Williston, S. W. 1911 B, 131, pl. xxiv, figs. 1, 2; pl. xxv; text-fig. 32 (Trispondylus).
Permian (Clear Fork); Texas.

REPTILIA INCERTÆ SEDIS.

METAMOSAURUS Cope. Type *M. fossatus Cope.*

Hay, O. P. 1902 A, 434.
Broili, F. 1904 A, 103 (Metarmosaurus).
Cummins, W. F. 1908 A, 745.
Nopcsa, F. 1923 H, 54.
Schuchert, C. 1910 A, 570.
Williston, S. W. 1916 B, 234.
    1925 B, 236.

This genus is placed by Case in the Amphibia; by Williston in the Reptilia.

Metamosaurus fossatus Cope.

Hay, O. P. 1902 A, 434.
Beede, J. W. 1907 A, 118.
Case, E. C. 1907 E, 65, text-figs. 18, 19.
    1915 A, 97.
Cummins, W. F. 1908 A, 743.
    Permian (Wichita); Texas.

EMBOLOPHORUS Cope. Type *E. fritillus* Cope.

Hay, O. P. 1902 A, 433.
Broili, F. 1904 A, 62, 102.
    1904 C, 270, 273.
Broom, R. 1903 D, 291.
    1908 A, 1058.
Case, E. C. 1902 C, pl. ii, figs. 5-7 (This genus?).
    1903 B, 2.
    1907 E, 129, text-fig. 55.
Cummins, W. F. 1908 A, 745.
Drevermann, F. 1915 A, 403.
Gadow, H. 1896 A, 49.
Huene, F. 1902 A, 35, fig. 38.
    1905 A, 338.
Nopcsa, F. 1928 A, 171.
Osborn, H. F. 1903 D, 475, fig. 12 (This genus?).
    1904 H, 111, fig. 12.
Schuchert, C. 1910 A, 570.
Stappenbeck, R. 1905 A, 410.
Williston, S. W. 1910 B, 234.
    1910 F, 590.
    1925 B, 236.

Embolophorus fritillus Cope.

Hay, O. P. 1902 A, 433.
Beede, J. W. 1907 A, 119.
Case, E. C. 1903 B, 2.
    1907 E, 65, pl. xxvii, fig. 16.
    1915 A, 99.
Cummins, W. F. 1908 A, 743 (Embolobus, *errore*).
Williston, S. W. 1910 F, 590.
    Permian (Wichita, Clear Fork?); Texas.

ARCHÆOBELUS Cope. Type *A. vellicatus* Cope.

Hay, O. P. 1902 A, 433.
Broili, F. 1904 A, 80, 102.
Case, E. C. 1915 A, 99 (Archæobellus).
Williston, S. W. 1916 B, 234 (Archæobolis).
    1925 B, 236 (Archæobolis).

Archæobelus vellicatus Cope.

Hay, O. P. 1902 A, 433.
Case, E. C. 1900 A, 715, pl. iii, fig. 1.
    1907 E, 28, pl. iv, fig. 6.
    1915 A, 99.
Cope and Matthew 1915 A, pl. iii, fig. 13.
    Pennsylvanian (Upper); Illinois.

DOLICHOBRACHIUM Williston. Type *D. gracile* Williston.

Williston, S. W. 1904 D, 688.
Huene, F. 1926 I, 96.
Mehl, M. G. 1915 B, 521.
Williston, S. W. 1905 B, 340.
    1914 A, 54.
    1917 C, 412.
Zittel and Broili 1911 A, 194 (To Poliosauridæ).
    1923 A, 344.

The systematic position of this genus is uncertain.

Dolichobrachium gracile Williston.

Williston, S. W. 1904 D, 688, text-figs. 1, 2.
Huene, F. 1911 D, 50, fig. 56.
    1926 E, 4.
    1926 I, 73, 76.
Mehl, M. G. 1928 B, 141.
    Upper Triassic (Popo Agie); Wyoming.

Order THERAPSIDA Broom.

Broom, R. 1905 C, 269.

Unless otherwise indicated the authors, as quoted, employ the name Theriodontia.

Abel, O. 1919 A, 415.
    1920 A, 367.
    1922 C, 588 ("theriodontier").
Arldt, T. 1907 D, 685.
    1908 A, 571, 585.
Brauns, D. 1890 A, 162 ("theriodonten").
Broili, F. 1904 A, 70.
Broom, R. 1897 C, 277 ("theriodonts").
Broom, R. 1901 A, 181 ("theriodonts").
    1902 D, 551, 554.
    1903 A, 343 ("theriodonts").
    1903 D, 286, 290, 293.
    1903 E, 136 ("theriodonts").
    1903 G, 144 ("theriodonts").
    1903 H, 147, 156.
    1903 I, 554.
    1904 A, 490 ("theriodonts").
    1905 B, 214 ("theriodonts").
    1905 E, 74 ("theriodonts").

Broom, R. 1905 F, 40 ("theriodonts").
1906 E, 369 (Therapsida).
1907 C, 797 (Therocephalia and Cynodontia).
1908 A, 1048 (Therapsida).
1910 A, 198, 207, 228 (Therapsida).
1915 C, 8, 9, 10, 15, 21, 25.
1917 A, 977 (Therapsida).
1921 A, 148 ("therapsids").
1922 A, 21.
1923 A, 674.
1924 B, 46, 61, 62.
1924 C, 72.
Broom and Haughton 1913 B, 26 (Therapsida).
Carus, V. 1875 A, 400 (Anomodontia).
Case, E. C. 1898 C, 622.
1926 B, 194.
Du Toit, P. J. 1910 A, 417.
Fuchs, H. 1911 B, 367.
1914 A, 29.
1920 B, 363, 368 ("therapsiden").
Gadow, H. 1901 B, 306.
Gaupp, E. 1911 D, 620 ("theriodonten").
1913 A, 98.
Gregory, W. K. 1910 C, 298 ("theriodonts").
1910 D, 600.
1913 E, 4, 25, 37.
1916 D, 105.
1917 C, 977.
1920 A, 131, 231.
1922 A, 12, 14, 81.
1926 A, 201, 202 ("therapsids").
Gregory and Adams 1915 A, 763 ("theriodonts").
Haughton, S. H. 1918 A, 175.
Heilprin, A. 1887 A, 159.
Howes and Swinnerton 1901 A, 3.
Huene, F. 1911 D, 41, 58 (Therapsida).
1925 D, 229 (Therapsida, Theriodontia).
1926 I.
Jaekel, O. 1904 C, 172.
1905 B, 66 ("theriodontier").
1910 D, 114, 115, 121.
Lydekker, R. 1912 C, 17, 26.
Matthew, W. D. 1928 B, 948 ("theromorph reptiles").
Nopcsa, F. 1922 A, 110, 111, 116 ("theriodontier").
1923 H, 122 (Theromorpha).
1928 A, 168 (Theromorpha).
Osborn, H. F. 1897 I, 107.
1898 U, 686.
1899 J, 415.
Owen, R. 1876 D, 15, 71.
Pearson, H. S. 1924 A, 822 ("theriodonts").
Reynolds, S. H. 1897 A, 272, 277, 283, 556 (Theromorpha).
Romer, A. S. 1922 A, 42 ("therapsids").
1922 B, 524, 591.
1924 C, 96.
Schmidt, O. 1886 A, 24.
Seeley, H. G. 1894 C, 387.
1896 B, 184 (Theropsida).
1899 B, 68 ("theriodonts").
1908 D, 611 ("theriodonts").
1909 A, 714 ("theriodonts").
Steiner, H. 1921 A, 537.
Tornier, G. 1913 B, 342.
Versluys, J. 1919 A, 5, 11, 12-14, 21, 22, 27 (Theromora).
Watson, D. M. S. 1913 G, 222, 227 ("therapsids").
1914 B, 89 ("therapsids").
1914 J, 1038.
1916 A, 342 ("therapsids").
1921 B, 35.
Williston, S. W. 1904 B, 176.
1914 A, 102, 222 (Theriodontia); 16, 45, 102 (Therapsida).
1916 B, 196 (Therapsida); 198 (Theriodontia).
1917 C, 415 (Therapsida).
1918 B, 99 (Therapsida).
1925 A, *passim* (Therapsida); 19, 52, 104, 147 (Theriodontia).
Wiman, C. 1916 D 413.
Zeigler, H. E. 1924 A, lx ("theriodontier").
Zittel, K. A. 1890 A, 448, 554, 572.
Zittel and Broili 1911 A, 196.
1923 A, 238.

Order ANOMODONTIA Owen.

The name Anomodontia (Owen, R. 1859 G, p. 58) is employed by writers in so many different senses that the author regards it as unavailable as a systematic term. The following citations may be found useful: On differences in usage see Watson, D. M. S. 1917 C; Nopcsa, F. 1923 H; and Williston, S. W. 1925 B.

Hay, O. P. 1902 A, 430.
Abel, O. 1909 F, 456.
1912 F, 221.
Anderson, R. J. 1909 B, 746.
Arldt, T. 1907 D, 638.
Boas, J. E. V. 1914 B, 564.
1914 C, 285.
Boulenger, G. A. 1902 F, 382 ("anomodonts").
1904 C, 479, 480.
Brauns, D. 1890 A, 162, 163, 202.
Broili, F. 1904 A, 69.
1904 D, 578, 580 (Anomodonta).
Broili, F. 1917 A, 561 ("anomodontier").
Broom, R. 1899 A, 749 ("anomodonts").
1903 C, 177 ("anomodonts").
1903 D, 286, 290.
1903 E, 136 ("anomodonts").
1903 F, 139 ("anomodonts").
1903 I, 554.
1904 C, 109 ("anomodonts").
1904 D, 75 ("anomodonts").
1905 B, 213 ("anomodonts").
1905 C, 266, 269.
1905 D, 263 ("anomodonts").
1906 A, 107 ("anomodonts").
1907 A, 35 ("anomodonts").
1908 A, 1048, 1059 ("anomodonts").
1909 D, 212.
1910 A, 210.
1910 C, 473.
1911 A, 917.
1912 B, 421.

Broom, R. 1912 D, 341 ("anomodonts").
1913 J, 363.
1913 K, 12.
1913 L, 231.
1913 P, 226, 229.
1915 C, 11.
1923 A, 674.
1924 B, 64, fig. 13.
Broom and Haughton 1913 B, 29 ("anomodonts").
DuToit, P. J. 1911 A, 417.
Fraas, E. 1905 B, 367.
Fuchs, H. 1907 A, 161.
1907 B, 415 ("anomodontier").
1911 A, 34.
1911 B.
Fuchs and Geinitz 1903 A, 36, 39.
Fürbringer, M. 1904 A.
Gadow, H. 1901 B, 309.
Gaupp, E. 1906 A, 33 ("anomodontier").
Gidley, J. W. 1912 C, 19.
Goodrich, E. S. 1916 A, 263.
Greene, J. R. 1861 A, 219, 226.
Hoernes, R. 1886 A, 584.
Hoffmann, C. K. 1890 B, 1319.
Howes, G. B. 1893 C, 585, 590.
Howes and Swinnerton 1901 A, 3.
Huene, F. 1902 A, 12, 68.
1911 D, 43.
1912 F, 524.
1914 G, pl. vii.
1925 D, 229.
Jaekel, O. 1902 C, 610.
1904 C, 173.
1905 B, 66 ("anomodontier").
1907 B, 1, 81 ("anomodontier").
1910 D, 121 ("anomodontier").
Lydekker, R. 1912 C, 4, 16, 142.
Newton, E. T. 1900 A, 645 ("anomodonts").
Nopcsa, F. 1928 A, 170 (Anomodontoidea).
Osborn, H. F. 1899 J, 415.
1903 H, 453, 456, 465.
Osborn, H. F. 1904 L, 256.
1904 N, 308.
1905 C, 295.
1905 N, 238.
Owen, R. 1876 D, 29, 73.
Seeley, H. G. 1882 A, 366.
1887 D, 338.
1896 B, 184.
1899 A, 180.
1899 B, 68.
1900 A, 280.
Sera, G. L. 1921 A, 45 ("anomodonti").
Sewertzoff, A. N. 1908 A.
Sixta, V. 1900 B, 324.
Sollas and Sollas 1914 A, 207.
1916 A, 531 (Dicynodon).
Stappenbeck, R. 1905 A, 427 ("anomodonten").
Sushkin, P. P. 1925 A, 180.
1928 A, 278.
Swinnerton and Howes 1901 A, 3.
Thevenin, A. 1910 A, 58 ("anomodontes").
Tornier, G. 1913 B, 337.
Versluys, J. 1912 B, 550, 665, 687.
Watson, D. M. S. 1912 B, 575.
1913 A, 71 ("anomodonts").
1913 B, 257.
1913 E, 210 ("anomodonts").
1914 D, 176.
1914 F, 778.
1914 H, 1012.
1916 A, 317, 347 ("anomodonts").
1917 C, 173.
1921 B, 69, 75, 93 ("anomodonts").
Williston, S. W. 1904 B, 176.
1905 D, 297.
1914 A, 16, 45, 102.
1916 B, 198.
1925 A, 10, 11, 28, 109, 118, 122, 147.
Zittel and Broili 1911 A, 198.
1923 A, 230.
Zittel, Eastman, etc. 1902 A, 179, 184.

Suborder Dicynodontiformes, new name.

Unless otherwise indicated the writers, as cited, use the name Dicynodontia.

Abel, O. 1919 A, 435.
1920 A, 370.
1922 C, 577 ("dicynodontier").
Broom, R. 1910 A, 210 (Anomodontia).
Carus, V. 1875 A, 401.
Case, E. C. 1926 B, 194.
Cope, E. D. 1891 N, 38, fig. 16 (Dicynodontia, Anomodontia).
Goodrich, E. S. 1916 A, 262.
Haughton, S. H. 1920 A, 12.
Huene, F. 1925 D, 238.
Lydekker, R. 1890 A, 15.
Nopcsa, F. 1922 A, 111, 116 ("dicynodontier").
1923 H, 4-188.
Owen, R. 1859 F, 289.
1860 E, 236.
Pearson, H. S. 1924 A, 793, seq.
1924 B, 827.
Pompeckj, J. F. 1925 A, 23 ("dicynodontier").
Romer, A. S. 1922 B, 524.
Sushkin, P. P. 1927 A, 301, 306 (Dicynodontia)
Terra, P. 1911 A, 239 (Anomodontia).
Watson, D. M. S. 1917 A, 30.
1917 C, 176.
Woodward, A. S. 1922 C, 29.
Zittel and Broili 1911 A, 198 (Anomodontia).
1923 A, 241.

DICYNODONTIDÆ Owen.

Owen, R. 1866 A, 16.
Hay, O. P. 1902 A, 430.
Arldt, T. 1907 D, 650.
1908 A, 585.
Broom, R. 1902 A, 86 ("dicynodonts").
Broom, R. 1903 C, 177 ("dicynodonts").
1905 D, 263 ("dicynodonts").
1912 D, 341 ("dicynodonts").
Cope, E. D. 1889 R, 866.
Flower and Lydekker 1889 A, 1063.

Huene, F. 1926 I, 78 ("dicynodontier").
Huxley, T. H. 1859 F, 131 ("dicynodonts").
1865 C, 8 ("dicynodonts").
Jaekel, O. 1904 C, 172 ("dicynodonten").
Nopcsa, F. 1902 A, 184 ("dicynodonten").
1928 A, 170.
Owen, R. 1860 E, 236 (Dicynodontia).
Owen, R. 1866 A, 16 (Dicynodontia).
Seeley, H. G. 1888 D, 71, 86 ("dicynodonts").
1888 F, 500 ("dicynodonts").
Tornier, G. 1913 B, 342 (Dicynodontia).
Watson, D. M. S. 1917 A, 30 ("dicynodonts").
1921 B, 93 ("dicynodonts").
Williston, S. W. 1925 B, 240.

DICYNODON Owen. Type *D. lacerticeps* Owen.

Hay, O. P. 1902 A, 430.
Abel, O. 1919 A, 438, figs. 341, 342.
1922 C, 576.
Amalitzky, V. 1922 A, 332, figs. 1, 2.
Ameghino, F. 1909 A, 5, 10, fig. 2.
Brauns, D. 1890 A, 162, fig. 7.
Broom, R. 1890 A, 411.
1899 A, 763.
1901 A, 162, 166.
1904 A, 491.
1904 D, 78.
1905 D, 263.
1909 E, 401.
1910 C, 476.
1912 D, 337.
1913 M, 6.
1915 C, 11.
1921 B, 647.
1926 A, 258, fig. 1.
1927 A, 74, fig. 1.
Broom and Haughton 1913 C, 36.
Case, E. C. 1926 B, 194.
Gregory, W. K. 1920 A, 132, figs. 52, 53.
1926 A, 206, 209.
Hoffmann, C. K. 1890 B, 1310, 1318.
Huene, F. 1902 A, 14.
1922 C, 58-71, figs. 1-4.
1923 B, 459.
Huxley, T. H. 1859 F, 130.
1865 C, 18.
Lydekker, R. 1915 A, 236, fig. 1.
Nopcsa, F. 1902 A, 189.
1923 H, 41, 42, 164.
1926 A, 636.
Owen, R. 1876 D, 30, pls. xxiii-xliv, lxix.
Pearson, H. S. 1924 A, 793, seq.
1924 B, 827.
Reynolds, S. H. 1897 A, 192, 273, 283.
Romer, A. S. 1922 A, 40, fig. 1.
1922 B, *passim*, pls. xxxiii, xxxvii.
Seeley, H. G. 1888 D, 76, 100.
1888 F, 488.
1898 B, 164.
Sera, G. L. 1921 A, 46.
Sollas and Sollas 1913 A, 61.
1914 A, 201, pls. xvii, xviii.
1916 A, 531, pls. xxxv, xxxvi.
Steiner, H. 1921 A, 537.
Sushkin, P. P. 1927 A, 299, 301, figs. 29-31.
Terra, P. 1911 A, 239.
Watson, D. M. S. 1912 B, 575, fig. 2.
1914 K, 95.
1917 B, 30, figs. 12-17.
1917 C, 176.
Wegner, R. N. 1922 A, 476.
Williston, S. W. 1925 A, 146, fig. 120.
1925 B, 240.
Woodward, A. S. 1922 C, 30, fig. 26.
Zittel and Broili 1911 A, 199, figs. 331, 332.
1923 A, 242, figs. 342-345.
Zittel, Eastman, etc. 1902 A, 187.

Dicynodon rosmarus Cope.

Hay, O. P. 1902 A, 430.
Huene, F. 1926 I, 96.
Lyman, B. S. 1894 A, 212 (D. rosmarinus).
Triassic (Newark); Pennsylvania.

PLACERIAS Lucas. Type *P. hesternus* Lucas.

Lucas, F. A. 1904 A, 194.
Broili, F. 1921 A, 339 (This genus?).
Broom, R. 1915, in Case, E. C. 1915 A, 75.
Case, E. C. 1915 A, 75.
Cross and Howe 1905 A, 489.
Huene, F. 1926 I, 77, 96.
Pearson, H. S. 1924 A, 793.
Simpson, G. G. 1926 G, 107.
Williston, S. W. 1911 F, 664.
1925 B, 240.
A genus of uncertain systematic position.

Placerias hesternus Lucas.

Lucas, F. A. 1904 A, 194, pl. iv.
Cross, W. 1908 A, 113.
Cross and Howe 1905 A, 480.
Darton, N. H. 1910 A, 42.
Gregory, H. E. 1917 A, 46.
Huene, F. 1926 E, 4.
1926 I, 74.
Merrill, G. P. 1907 A, 75.
Pearson, H. S. 1924 A, 793.
Triassic (Chinle); Arizona.

BRACHYBRACHIUM Williston. Type *B. brevipes* Williston.

Williston, S. W. 1904 D, 694.
Huene, F. 1926 I, 96.
Simpson, G. G. 1926 G, 107.
Williston, S. W. 1925 B, 240.
The systematic position of this genus is uncertain.

Brachybrachium brevipes Williston.

Williston, S. W. 1904 D, 694, text-fig. 5.
Huene, F. 1911 D, 50, fig. 55.
1926 E, 4.
1926 I, 73.
Upper Triassic (Popo Agie beds); Wyoming.

EUBRACHIOSAURUS Williston. Type *E. browni* Williston.

Williston, S. W. 1904 D, 690.
Abel, O. 1919 A, 431.
Broili, F. 1921 A, 342.
Huene, F. 1926 I, 96.
Pearson, H. S. 1924 A, 793.
Watson, D. M. S. 1917 C, 176.
Williston, S. W. 1911 F, 664.

Eubrachiosaurus browni Williston.

Williston, S. W. 1904 D, 690, text-figs. 2, 3.
Huene, F. 1926 E, 4.
1926 I, 73, 77.
Pearson, H. S. 1924 A, 793.
Triassic (Chugwater); Wyoming.

Superorder ASTATOGLYPTICA, new name.

Order TESTUDINATA, Bonaparte.

Bonaparte, C. L. 1831, Gior. Arcad. Sci., xlix, 5.
Hay, O. P. 1902 A, 434 (Testudines).
Abel, O. 1907 B, (76) ("schildkröten").
1908 D, (215) ("schildkröten").
1909 D, (226) ("schildkröten").
1912 F, 221 (Testudinata); 528 ("schildkröten").
1914 C, 341 ("schildkröten").
1919 A, 374 (Testudinata).
1920 A, 363, fig. 572 (Chelonia).
1921 A, 145, 188, 251 ("schildkröten").
Adams, C. C. 1902 A, 116 ("turtle").
Altmann, F. 1925 A, 95 ("chelonier").
Anderson, R. J. 1912 A, 917 (Chelonia).
1912 D, 251 (Chelonia).
Andrews, C. W. 1896 B, 148 (Chelonia).
1906 A, xxiv (Chelonia).
1913 A, vii (Chelonia).
Anthony, R. 1912 A ("tortues").
1913 A, 24 ("chéloniens").
Arldt, T. 1907 D, 684.
1908 A, 587 ("schildkröten").
1909 D, 652 ("schildkröten").
Ballerstedt, M. 1921 A, 64.
Bardeleben, K. 1896 A, 114 ("schildkröten").
Batsch, A. J. 1788, Anleit, Kenntn. Thiere, Man. I, 437 (Testudines).
Baur, G. 1889 L, 312.
Beer, G. R. 1926 A, 316 (Chelonia).
Bender, O. 1907 A, 40 ("chelonier").
1911 A, 163 ("schildkröten").
1912 A, 3 ("chelonier").
1913 A, 284 ("schildkröten").
Beyer, H. 1907 A, 288 ("chelonier").
Blainville, H. M. D. 1835 A, 239 (Chelonia).
Bluntschli, H. 1912 B, 384 ("chelonier").
Boas, J. E. V. 1914 B, 565 ("schildkröten").
1914 C, 287 (Chelonia).
Bojanus, L. H. 1819 A, 1362 ("schildkröten").
1821 A, 1158 ("schildkröte").
Bonaparte, C. L. 1832 A, 312 (Chelonii).
1833 B, 1083.
Boulenger, G. A. 1888 B, 452 (Chelonia).
1893 B, 205 ("chelonians").
1904 C, 479-480 (Chelonia).
1917 C, 459 ("chéloniens").
1917 D, 1045 ("tortues").
1918 E, 514 ("chéloniens").
1919 A, 44 ("tortues marines").
Branca, W. 1908 B, 44 ("schildkröten").
Brauns, D. 1890 A, 147, 162, 163, 164 (Chelonia).
Braus, H. 1906 A, 261 ("chelonier").
Bronn, H. G. 1849 A, 812, seq. (Chelonii).
Broom, R. 1901 A, 188 (Chelonia).
Broom, R. 1902 D, 556 (Chelonia).
1903 I, 552 (Chelonia).
1904 C, 111 ("chelonians").
1905 B, 215 ("chelonians").
1908 A, 1054 (Chelonia).
1908 E, 114 ("chelonians").
1909 D, 213 (Chelonia).
1911 A, 920 ("chelonians").
1913 J, 364 (Chelonia).
1913 L, 231 (Chelonia).
1922 A, 17, 21, 25.
1924 B, 48, 64, fig. 13 (Chelonia).
1924 C, 75 (Chelonia).
Carter, J. T. 1905 A, 129 (Chelonia).
Carus, V. 1875 A, 391 (Chelonia).
Carus and Engelmann 1861 A, 1102-1105, 1564, 1675, 1694, 1702, 1721 (Chelonia).
Case, E. C. 1898 C, 725.
1905 A, 298.
1923 A, 517.
Cleland, J. 1863 B, 310 ("chelonians").
Coker, R. E. 1905 A, 874 ("turtles").
1905 B, 9 (Chelonia).
1910 A, 1 (Chelonia).
Cooper, C. F. 1922 C, 155 ("tortoises").
Cope, E. D. 1891 N, 35, 39.
Cuvier, G. 1805 A ("chéloniens").
1812 A, 125 ("tortues").
1825 A, v, 2, 176-249, pls. xi-xv ("tortues").
Dana, J. D. 1863 C, 343 ("chelonians").
Davenport, G. C. 1898 A, 187 ("turtles").
Dendy, A. 1907 A, 292 (Chelonia).
Diener, C. 1909 A, 36 ("schildkröten").
Döderlein, L. 1900 A, 335 (Chelonia).
Dollo, L. 1883 G, 590 (Chelonia).
1889 B, 668 ("chéloniens").
1903 C ("chéloniens").
1913 A, 50 ("chéloniens").
1913 B, 622 ("chéloniens").
Dombrowski, B. A. 1925 A, 75 ("schildkröten").
Drevermann, F. 1922 A, 102 ("schildkröten").
Duméril, A. M. C. 1806 A, 76 (Chelonii).
DuToit, P. J. 1911 A, 420.
Edgeworth, F. H. 1907 A, 516 (Chelonia).
Eichwald, E. 1832 A, 868 ("schildkröten").
Eimer, G. H. T. 1901 A, 261 ("schildkröten").
Emery, C. 1901 A, 672 ("schildkröten").
Fitzinger, L. 1836 A, 107.
1843 A, 29.
Fleischmann, A. 1910 A, 699 (Chelonia).
Fraas, E. 1903 A, 73 ("schildkröten").
1905 B, 363.
Frassetto, F. 1915 A ("cheloni").
Fries, C. 1924 A, 277 ("schildkröten").

Fry, E. 1850 A, 21 (Testudina).
Fuchs, H. 1907 A, 161.
1907 B ("schildkröten").
1907 C, 19, 23 ("schildkröten").
1907 D, 33 ("schildkröten").
1908 B, 585 ("schildkröten").
1908 C, 153 ("schildkröten").
1909 B, 114, 143, 151 (Testudinata); 152 (Heterapsida).
1909 D, 26 ("schildkröten").
1910 A, 39 ("schildkröten").
1910 C, 495 ("chelonier").
1911 B.
1911 C, 39 ("schildkröten").
1912 D, 153 ("chelonier").
1920 A (Testudinata).
1926 B, 2, 31.
1927 A, 312, fig. 4.
Fürbringer, M. 1888 A, 1620 (Chelonia).
1902 B, 727 ("chelonier").
1904 A.
Gadow, H. 1896 A, 41-52, figs. 44-50 (Chelonia).
1901 A, 405 (Chelonia).
1901 B, 312 (Chelonia).
1902 B, 353 (Chelonia).
1902 D, 207 (Chelonia).
1912 B, 216 ("chelonians").
1914 A, 503 ("chelonians").
Gaupp, E. 1891 B, 108 ("chelonier").
1895 A, 58, seq. ("schildkröten").
1899 A, 1034, 1091 (Chelonia).
1902 A, 178, 224 ("schildkröte").
1905 D, 1016 ("chelonier").
1906 A, 43 ("schildkröten").
1906 B, 787 ("schildkröten").
1908 B, 528 ("schildkröten").
1910 A, 541 ("schildkröten").
1910 B, 358 ("schildkröten").
1910 C, 411 ("schildkröten").
1911 A, 420 ("schildkröten").
1911 B, 108 (Chelonia).
1911 C, 443, 449 (Chelonia).
1911 D, 616, 630 ("schildkröten").
1911 E, 338, 411 ("schildkröten").
1912 B, 221 ("schildkröten").
1913 A, 50 (Chelonia).
Gegenbaur, C. 1863 A, 466 ("schildkröten").
1867 B, 401 ("schildkröten").
1870 A, 336 ("schildkröten").
1871 A, 200 ("schildkröten").
Gelderen, C. 1923 A, 29 (Chelonia).
1925 A, 505 ("chelonier").
Gervais, P. 1852 A, 242 ("chéloniens").
1853 B, 30 ("chéloniens").
1859 A, 434 ("chéloniens").
Goodrich, E. S. 1916 A, 263, 264, 272.
Goodsir, J. 1857 A, 140, 144, 157, 160 ("chelonians").
Gray, J. E. 1825 A, 210 (Chelonii).
1837 C, 131 ("chelonians").
1855 A, 1 (Chelonia).
1873 D, 161, 169 (Chelonia).
Greene, J. R. 1861 A, 219, 226 (Chelonia).
Gregory, W. K. 1913 E, 17, 18 (Chelonia).
1920 A, 119, 229 (Chelonia).
Gregory and Camp 1918 A, 532 (Chelonia).
Gregory and Noble 1924 A, 437 ("turtles").
Haeckel, E. 1868 A, 453 ("schildkröten").
1873 A, 512, 531 (Chelonia).
Harkness, R. 1852 A, 250 (Chelonia).
Hase, A. 1913 A, fig. 36 ("schildkröten").
Hasse, C. 1871 A, 225-299 ("schildkröten").
1872 B, 543 ("schildkröten").
1873 D, 685 ("schildkröten").
Hasse and Schwarck 1870 A, 55 ("schildkröten").
Hay, O. P. 1901 C, 624 ("turtles").
1905 A, 137 (Testudines).
1905 G, 327 ("turtles").
1905 H, 295.
1908 A, 25, 43 (Testudines).
1912 E, 212 (Chelonia).
1922 E, 421, 440.
1928 A, 1-12.
Hayek, H. 1924 A, 149 ("schildkröten").
Heilmann, G. 1926 A, 204 (Chelonia).
Heilprin, A. 1887 A, 313 (Chelonia).
Henshaw, H. W. 1912 A, 318 ("turtles").
Hilzheimer, M. 1913 A, 516 ("schildkröten").
Hoernes, R. 1886 A, 586 (Chelonia).
Hoffmann, C. K. 1879 B, 52 ("schildpadden").
Hollard, H. 1864 A, 13 ("tortues").
Hommes, J. H. 1924 A, 36 (Chelonii).
Howes, G. B. 1893 C, 585 (Chelonia).
1902 A, 524 (Chelonia).
Howes and Swinnerton 1901 A, 2, 30, 46, 68 (Chelonia); 3, 56 (Testudinata).
Huene, F. 1902 A, 48.
1920 D, 163 ("schildkröten").
1926 I, 78 ("schildkröten").
Humphry, G. M. 1876 A, 671 ("chelonians").
Huxley, T. H. 1859 D, 441, 449 (Chelonia).
1859 F, 137 (Chelonia).
1862 A, li (Chelonia).
1863 F, 477, 529 (Chelonia).
1870 A, 398 (Chelonia).
1870 H, 492 (Pleurospondylia).
1876 F, 173 (Chelonia).
1877 A, 58 (Chelonia).
1879 A, 398 (Chelonia).
1887 C, 232 (Chelonia).
Ihde, — 1912 A, 251 ("schildkröten").
Jaekel, O. 1901 A, 559.
1902 B, 134 ("schildkröten").
1902 D, 131 ("cheloniden").
1904 C, 188 ("schildkröten").
1905 C, 144 ("schildkröten").
1907 B, 60, 88, fig. 44 ("schildkröten").
1908 A, 140 (Testudinata).
1909 C, 706 ("schildkröten").
1910 D, 114, 116.
1911 A, 183.
1912 A, 618 ("schildkröten").
1913 A, 83, fig. 3 ("schildkröten").
1914 A, 197 ("testudinaten").
1915 A, 88.
Johnson, A. 1883 A, 406 (Chelonia).
Kasper, A. 1903 A, 137 ("schildkröten").
Kehrer, F. A. 1896 A, 353 ("schildkröten").
Kerbert, C. 1876 A, 206 ("chelonier").
Kesteven, H. L. 1916 A, 304 (Chelonia).
1918 A, 449 (Chelonia).
1919 A, 233 ("chelonians").
1922 A, 316 (Chelonia).
Kingsley, J. S. 1905 A, 62 ("turtles").

Kingsley, J. S. 1912 B, 91 ("chelonians").
1925 A, 14, 44, 145, 252, 285 (Chelonia).
Klaauw, C. J. 1924 B, 592 (Chelonia).
Klein, E. E. 1868 A ("chelonier").
Köstlin, O. 1844 A ("schildkröten").
Koken, E. 1893 B, 646 ("schildkröten").
1898 A, 141 ("schildkröten").
1898 B, 143 ("chelonier").
Kunkel, B. W. 1911 A, 354 ("schildkröten").
Lambe, L. M. 1901 B, 182 (Chelonia).
Lane, H. H. 1910 B, 345.
Latreille, P. A. 1825 A, 91 (Chelonii).
Lavocat, A. 1884 A, 1126 ("tortues").
1885 A, 36 ("chéloniens").
1889 A, 47 ("tortues").
Lebedinsky, N. G. 1913 A, 767 ("chelonier").
Le Conte, J. 1854 A, 188.
Le Damany, P. 1902 A, 334 ("tortues").
1902 B, 371 ("tortues").
1903 B, 275 ("chéloniens").
1903 D, 353 ("chéloniens").
1906 A, 61, 72 ("chéloniens").
1906 B, 156 ("chéloniens").
Leunis and Ludwig 1883 A, 526 (Chelonia).
Lobley, J. L. 1908 A, 199 (Chelonia).
Lorenz, L. E. F. 1807 A ("testudines").
Lubosch, W. 1914 A, 425 ("chelonier").
Lull, R. S. 1904 A, 528.
1910 D, 152 (Chelonia).
1917 B, 322.
Lydekker, R. 1909 C, 466 ("chelonians").
1912 C, 3, 4, 22, 28, 38, 123, 130 (Chelonia).
1915 C, 633 (Chelonia).
McGregor, J. H. 1905 A, 295 ("turtles").
Mantell, G. A. 1844 A, 765 (Chelonia).
Martins, C. 1872 A, 307 ("tortues").
Matthew, W. D. 1914 B, 383 (Chelonia).
1921 D, 211, 214 (Chelonia).
Meckel, J. F. 1825 A ("chelonier").
Merriam, J. C. 1912 B, 222.
Moodie, R. L. 1908 C, 319, 322 (Chelonia).
1908 D, 446 (Chelonia).
Mook, C. C. 1918 A, 466 (Chelonia).
Müller, J. 1832 A, 507.
Newman, H. H. 1906 A, 68 (Chelonia).
1906 B, 526 (Chelonia).
Noble, G. K. 1923 A, 377.
Nopcsa, F. 1922 A, 109, 116 ("schildkröten," "testudinaten").
1923 E, 1048 (Testudinata).
1923 F (Testudinata).
1923 H, 1-171, tab. (Chelonia, Testudinata).
1926 A, 638 ("tortoises").
1928 A, 165.
Oertel, W. 1924 A, 42-79 ("schildkröten").
Ogushi, K. 1911 A, 1 ("schildkröten").
Oken, L. 1819 A, 1529 ("schildkröten").
1823 B, 444 ("schildkröten").
Osborn, H. F. 1902 H, 750 (Chelonia).
1903 D, 313.
1903 H, 454, 456, 465 (Testudinata); 453, 454, 465 (Chelonia).
1904 H, 105.
1904 N, 308 (Chelonia).
1905 C, 295.
1905 N, 238.
Osborn, H. F. 1909 D, 57, 66.
1917 B, 201-203 (Chelonia).
1925 F, 962 (Chelonia).
Osburn, R. C. 1906 A, 447 (Chelonia).
Oswald, F. 1909 A, 124 ("chelonians").
Owen, R. 1842 F, 77 (Chelonia).
1846 E (Chelonia).
1848 B, 122 ("chelonians").
1868 A, 872, 873 (Chelonia).
Palacký, J. 1894 A, 133 ("schildkröten").
1902 B, 141 ("schildkröten").
Parker, G. H. 1901 A ("turtles").
Parker, W. K. 1869 A, 508 ("chelonians").
1878 C, 214 (Chelonia).
1879 C, 342 ("chelonians").
1888 C, 397 ("tortoises").
Parker and Haswell 1897 A, 313, 320 (Chelonia).
Perna, G. 1906 A, 135 ("chelonier").
Peters, W. 1838 A ("Chelonia").
1867 A, 726 ("schildkröte").
1868 B, 388 ("tortoises").
1869 A, 6 ("schildkröten").
Petronievics, B. 1919 A, 414 ("chéloniens").
Pfeiffer, H. 1854 A, 33 ("schildkröten").
Plieninger, F. 1906 A, 406.
Pompeckj, J. F. 1925 A, 6, 10 ("schildkröten").
Proctor, J. B. 1922 A, 516 ("chelonians").
Pycraft, W. P. 1909 A, 204 ("turtles").
Rabl, C. 1903 A, 164 ("dromopoden" and "eretmopoden"); 159, 165, fig. 12 ("schildkröten").
Rafinesque, C. S. 1815 A, 74 (Perostia).
Rathke, H. 1846 A, 161 ("chéloniens").
Reynolds, S. H. 1897 A, 193-293 (Chelonia).
Rice, E. L. 1920 A ("turtles").
Röse, C. 1892 G, 143 ("schildkröten").
Romer, A. S. 1922 B, 543 (Chelonia).
Sabatier, A. 1896 A, 125 ("chéloniens").
1902 A, 100 ("chéloniens").
Schauinsland, H. 1899 A, 333 ("schildkröten").
1906 A, 542 ("schildkröten").
Schmidt, W. J. 1916 A, 9 ("schildkröten").
Schöne, G. 1902 A, 11 ("chelonier").
Seeley, H. G. 1872 A, 275 ("chelonians").
1872 B, 25, 38 ("chelonians").
1876 C, 172, 175.
1880 B.
1882 A, 366 (Chelonia).
1887 D, 338 (Chelonia).
1887 E, 197 ("chelonians").
1899 B, 70 ("chelonians").
1904 A, 342.
Serres, M. 1852 A, 115, 144 ("chéloniens").
Sewertzoff, A. N. 1904 A, 484 ("chelonier").
1908 A.
Seydel, O. 1899 A ("chelonier").
Shufeldt, R. 1921 A, 213 (Chelonia).
Siebenrock, F. 1909 A, 429, 432.
1919 A, 273.
Sixta, V. 1905 A, 678 ("chelonier").
Smith, G. E. 1912 A, 426 (Chelonia).
Smith, L. W. 1914 A, 548 ("turtles").
Sollas, W. J. 1916 A, 115.
Stannius, H. 1856 A, 7, 27 (Chelonia).
Stefano, G. 1917 A, 278 (Chelonia).
Stehli, G. 1910 A, 781 ("schildkröten").
Steiner, H. 1921 A, 538 ("chelonier").
1922 A, 330, 337 (Chelonia).

Steinmann, G. 1907 A, 433.
1908 A, 213 ("schildkröten").
1912 B, 731.
Stejneger, L. 1907 C, 483.
Stejneger and Barbour 1917 A, 111.
Strecker, C. 1887 A, 302 ("schildkröten").
Stromer, E. 1912 A, 94, 126 (Chelonia).
Sushkin, P. P. 1927 A, 307 ("chelonians").
Taschenberg, O. 1894 A, 3636 (Chelonia).
Terra, P. 1911 A, 242 (Chelonii).
Thäter, K. 1910 A, 471 ("schildkröten").
Thevenin, A. 1910 A, 59 ("chéloniens").
Thyng, F. W. 1906 A, 50.
Tornier, G. 1909 C, 547 ("schildkröten").
1913 A, 336 (Chelonia).
1913 B, 364, 374 (Chelonia).
Valliant, L. 1877 A, 13 ("chéloniens").
1877 C, 54 ("chéloniens").
1881 A, 1, 99 (Chelonia).
Van Bemmelen, J. F. 1928 A, 286 ("chéloniens").
Van den Broeck, E. 1900 A, 88 ("chéloniens").
Van Gelderen, C. 1925 A, 505 ("chelonier").
Versluys, J. 1912 B, 550, 574, 674, 687 (Chelonia).
1914 A, 791, 793 (Chelonia).
1914 B, 321-347.
1919 A, 7, 14.
Virchow, H. 1914 A, 79 ("schildkröten").
1919 A, 303 ("schildkröten").
1921 A, 139 ("schildkröten").
1926 A, 214 ("schildkröten").
Vitali, G. 1909 A, 212 ("cheloni").
Wagner, R. 1843 A (Chelonia).
Wallace, A. R. 1876 A, II, 567 (Chelonia).
Watson, D. M. S. 1914 B, 89 (Chelonia).
1914 H, 1011 (Chelonia).
1917 A, 984 ("tortoises").
1917 B, 60 (Chelonia).
1917 C, 177.
Wegner, R. N. 1922 A, 480.
Werner, F. 1904 A, 338 ("schildkröten").
Wieland, G. R. 1908 A, 516.
1911 A, 123.
1912 B, 299 ("turtles").
1923 A, 10.
Williston, S. W. 1902 G, 314 ("chelonians").
1904 B, 176.
1905 E, 294.
1907 A, 487 ("turtles").
1908 A, 148 (Chelonia).
1909 A, 394 ("turtles").
1910 A, 271 (Chelonia).
1912 E, 260 (Chelonia).
1914 A, 217 (Chelonia).
1916 B, 193 (Chelonia).
1917 C, 419 (Chelonia).
1918 A, 79 (Chelonia).
Woodward, A. S. 1888 N, 373 (Chelonia).
1888 O, 353 (Chelonia).
1922 C, 41 (Chelonia).
Woodward, H. 1904 B, 143 (Chelonia).
Zdansky, O. 1924 A, 89.
Zittel and Broili 1911 A, 241 (Testudinata); 254 (Chelonia); 252 (Cheloniidea).
1923 A, 246, 293, 383 ("schildkröten").
Zittel, Eastman, etc. 1902 A, 189 (Chelonia).

Suborder EUNOTOSAURIA Watson.

Watson, D. M. S. 1914 H, 1019, fig.
Nopcsa, F. 1928 A, 165.
Williston, S. W. 1925 B, 221.
Zittel and Broili 1923 A, 245, fig. 350.

No species are known from North America. The relations of the suborder to the Testudinata are uncertain.

Suborder ATHECÆ Cope.

Hay, O. P. 1902 A, 435.
Abel, O. 1901 B, 312.
Andrews, C. W. 1919 A, 314.
Cope, E. D. 1891 N, 39.
Dollo, L. 1886 B, 130.
1889 B, 668 ("athéques").
1903 A, 727 ("athéques").
1903 C, 849 ("athéques").
1907 D, 82 ("athéques").
1913 A, 50 ("athéques").
1923 C, 418 ("athéques").
Fejérváry, G. J. 1920 A, 347 ("atheken").
Fuchs, H. 1907 B, 423 (Atheca).
1909 B, 152.
Fürbringer, M. 1900 A, 631.
Gadow, H. 1898 A, 21.
1901 B, 333.
Harrassowitz, H. 1922 A, 220.
Hay, O. P. 1904 A, 265.
1908 A, 25, 43.
Hay, O. P. 1909 D, 341.
1922 C.
1922 E, 425, 440.
1928 A, 4.
Hilzheimer, M. 1913 A, 516.
Jaekel, O. 1902 B, 136.
1907 B, 64.
Kathariner, L. 1913 A, 373.
Kingsley, J. S. 1925 A, 44.
Nopcsa, F. 1923 H, 115 ("lederschildkröten").
Siebenrock, F. 1909 A, 428.
Stejneger, L. 1907 A, 185.
Tornier, G. 1913 B, 365.
Versluys, J. 1914 B, 339.
Völker, H. 1913 A, 485 (Atheca).
Werner, F. 1898 A, 280.
Williston, S. W. 1908 G, 803.
1925 B, 222.
Zittel and Broili 1911 A, 253.
1923 A, 307.

DERMOCHELYIDÆ.

Hay, O. P. 1902 A, 436.
Abel, O. 1901 A, 25.
1919 A, 404.
Arldt, T. 1907 D, 650.
Bonaparte, C. L. 1832 A, 313 (Sphargidina).
1833 B, 1183 (Sphargidina).

Boulenger, G. A. 1918 E, 515.
Carus, V. 1875 A, 400 (Sphargidinæ).
Cope, E. D. 1891 N, 30 (Dermochelydæ).
Dollo, L. 1889 B, 669 (Sphargidæ).
1901 A, 1-26.
1903 A, 727 (Sphargidæ).
Fraas, E. 1903 A, 96 (Dermochelydæ).
1905 B, 364 ("dermochelyden").
Fuchs, H. 1907 B, 423 (Sphargidæ).
1920 A, 357.
1920 B, 353 (Dermochelydæ).
Gadow, H. 1901 B, 333 (Sphargidæ).
Goette, A. 1899 A, 428 (Psephophoridæ).
Hay, O. P. 1901 C, 624 (Dermochelys).
1908 A, 14.
Jaekel, O. 1902 B, 132, 136 (Dermochelys).
1907 B, 49, figs. 34, 43 (Dermochelys).
1910 D, 116 ("dermochelyden").
1911 A, 187.
1916 A, 145 (Dermochelys).
Kathariner, L. 1913 A, 373 (Dermochelydæ).
Kingsley, J. S. 1925 A, 15 (Dermochelydæ).
Lull, R. S. 1924 A, 275 (Sphargidæ).
Lydekker, R. 1912 C, 28, 125.
Merriam, J. C. 1912 B, 222.
Newman, H. H. 1906 A, 72 (Dermochelydæ).
Nick, L. 1912 A, 7 (Dermochelydæ).
Nopcsa, F. 1923 H, 39, 122 (Dermochelynæ), 191 (Dermochelydæ).
1928 A, 167.
Owen, R. 1866 A, 61 (Sphargis).
Petronievics, B. 1919 A, 411 (Dermochelys).
Pictet, F. A. 1853 A, 462 ("les sphargis").
Rabl, C. 1903 A, 159, 164 ("dermochelyden").
Sewertzoff, A. N. 1908 A, 262 ("dermocheliden").
Siebenrock, F. 1909 A, 428, 551.
Stehli, G. 1910 A, 787, 789 (Dermochelydæ).
Stejneger, L. 1907 C, 485 (Dermochelidæ).
Thyng, F. W. 1906 A, 51.
Tornier, G. 1913 B, 365.
Vaillant, L. 1877 A, 14 (Sphargis).
1877 C, 55 (Sphargidina).
1881 A, 99 (Sphargidina).
Versluys, J. 1914 B, 321, seq.
Wieland, G. R. 1902 A, 97, et seq. (Dermochelys, Dermochelydidæ).
1903 A, 214 (Dermochelys).
Williston, S. W. 1914 A, 241 ("leather-back").
1925 A, 45.
1925 B, 225.
Woodward, A. S. 1888 O, 353 (Sphargidæ).
Zittel and Broili 1911 A, 253.
1923 A, 307.
Zittel, Eastman, etc. 1902 A, 197.

DERMOCHELYS Blainville. Type *Testudo coriacea* Linnæus.

Blainville, H. M. D. 1816, Jour. Phys., lxxxiii, 259.
Abel, O. 1901 A, 25.
1901 B, 297, 304 (Sphargis, Dermochelys).
1909 F, 469.
1912 F, 131, 528, 611, 668, fig. 469.
1919 A, 406, fig. 316.
1921 A, 193
Andrews, C. W. 1910 A, 314.
Baur, G. 1888 A, 44
Boulenger, G. A. 1889 A, 7, fig. 1.
1891 C, 8.
Broom, R. 1911 A, 921.
Burne, R. H. 1905 A, 291.
Case, E. C. 1898 C, 726.
Coker, R. E. 1910 A, 5.
Dollo, L. 1889 B, 669 (Dermatochelys).
1903 C, 801.
1923 C, 417.
Ford, J. 1879 A, 633 (Sphargis coriacea).
Fries, C. 1924 A, 279 ("lederschildkröte").
Fuchs, H. 1907 B, 423, pl. xx, figs. 1, 2 (Sphargis)
1909 B, 152
1909 D, 55 (Sphargis).
1910 A, 84.
1912 B, 87.
1920 A.
1920 B
Fürbringer, M. 1900 A, 320, fig. 82.
1904 A, 381
Gadow, H. 1901 B, 333, fig. 73 (Sphargis).
Gray, J. E. 1873 D, 169, 171, pl. vi, fig. 5 (Sphargis)
Hay, O. P. 1901 C, 624.
1903 A, 147.
1908 A, 17.
1912 E, 218.
Hay, O. P. 1922 C.
1922 E, 421.
1928 A, 1-12.
Hoffmann, C. K. 1879 B, 53 (Sphargis).
Kathariner, L. 1913 A, 369.
Kingsley, J. S. 1925 A, 266, fig. 287 (Sphargis).
Klaauw, C. J. 1924 B, 592.
Le Conte, J. 1854 A, 186 (Sphargis).
Lydekker, R. 1901 B, 652 ("leather turtle").
Matthes, E. 1921 C, 113, 187.
Nick, L. 1912 A, 1-214, pls. i-ix.
Noble, G. K. 1923 A, 377.
Nopcsa, F. 1923 E, 1045, 1048, figs. 8, 9.
1923 F.
1923 H, 32-34, 37, 164, 186, 191.
1926 A, 656.
Owen, R. 1868 A, 909 (Sphargis).
Proctor, J. B. 1922 A, 516.
Rabl, C. 1903 A, 167.
Rathke, H. 1846 A, 161, 165 (Sphargis).
Reynolds, S. H. 1897 A, 538.
Rüschkamp, F. 1925 A, 133.
Schmidt, W. J. 1920 A, 10.
Siebenrock, F. 1909 A, 552.
Stannius, H. 1856 A (Sphargis).
Strasser, O. z. 1919 A, 134.
Vaillant, L. 1881 A, 47.
Van Bemmelen, J. F. 1928 A, 287, 288.
Versluys, J. 1908 A, xviii.
1909 A, 283, figs. A, B.
1910 A, 487.
1912 B, 576, 674.
1914 A, 791, figs. 1-3.
1914 B, 321-347, figs. 1, 3, 4.
1919 A, 5, fig. 2.
Völker, H. 1913 A, 432.
Watson, D. M. S. 1914 H, 1012.
Wieland, G. R. 1906 A, 289.

Wieland, G. R. 1906 B, 10, fig. 3.
1909 A, 129.
1909 B, 252.
1911 A, 112.
1912 A, 287.
Williston, S. W. 1908 G, 803.
1914 A, 241, fig. 128.
Williston, S. W. 1925 B, 223.
Woodward, A. S. 1888 O, 358.
Zdansky, O. 1924 A, 93.
Zittel and Broili 1911 A, 253.
1923 A, 297, 307.

No fossil species of this genus are recognized from North America.

PSEPHOPHORUS Meyer. Type *P. polygonus* Meyer.

Meyer, H. 1847, Neues Jahrb. Min. Geol., 579.
Abel, O. 1901 B, 304.
1909 F, 469.
1912 F, 615.
1919 A, 406, fig. 315.
1921 A, 193.
Andrews, C. W. 1901 A, 440, fig. 3.
1906 A, xxiv, 275.
1916 B, 519.
1919 A, 314.
Boulenger, G. A. 1891 C, 8.
Dollo, L. 1888 C, 66, pl. iv, fig. 7 (Sphargis rupeliensis).
1903 C.
1919 A, 13.
Fries, C. 1924 A, 279.
Gadow, H. 1901 B, 337.
Goette, A. 1899 A, 426.
Hay, O. P. 1905 A, 160.
Jaekel, O. 1907 B, 51, fig. 35.
Lydekker, R. 1889 G, 224.
Nopcsa, F. 1923 H, 191.
Oswald, F. 1909 A, 124.
Seeley, H. G. 1880 B, 406.
Stromer, E. 1916 A, 405.
Versluys, J. 1914 B, 323, 343.
Völker, H. 1913 A, 535.
Wieland, G. R. 1909 A, 125.
Williston, S. W. 1925 B, 226.
Woodward, A. S. 1898 B, 174.
Zittel, K. A. 1890 A, 520.
Zittel and Broili 1911 A, 254.
1923 A, 308.
Zittel and Eastman, etc. 1902 A, 197.

Psephophorus calvertensis Palmer.

Palmer, W. 1909 A, 370, pl. xxxi.

Upper or Middle Miocene (Calvert); Maryland.

Psephophorus sp. indet.

Abel, O. 1901 A, 25 (Not Psephophorus).
Müller, J. 1849 A, 34, pl. xxvii, fig. 7 ("Dermatochelys"?).
Winge and Miller 1921 A, 56. Eocene (Jackson); Alabama. This genus?.

Suborder THECOPHORA Dollo.

Hay, O. P. 1902 A, 436.
Abel, O. 1901 B, 316 ("thecophoren").
1904 B, 743 ("thecophoren").
Arldt, T. 1909 D, 652.
Coker, R. E. 1910 A, 5.
Dollo, L. 1886 B, 130.
1887 B, 392.
1889 B, 669 ("thécophores").
1901 A, 9.
1903 A, 727 (thécophores).
1913 A, 51 (thécophores).
1923 C, 418 ("thécophores").
Fejérváry, G. J. 1920 A, 347.
Fuchs, H. 1907 B, 425.
1909 B, 152.
Fuchs, H. 1920 A, 356 ("thecophoren").
Fürbringer, M. 1900 A, 631.
Gadow, H. 1901 B, 338.
Hay, O. P. 1908 A, 43.
1909 D, 341.
1922 C.
1922 E, 425, 439.
1928 A, 4.
Siebenrock, F. 1909 A, 428.
Tornier, G. 1913 B, 365 (Tecophora).
Versluys, J. 1914 B, 339.
Völker, H. 1913 A, 526 ("thecophoren").
Werner, F. 1898 A, 280.
Williston, S. W. 1908 G, 803.
1925 B, 222.

Superfamily PLEUROSTERNOIDÆ, new name.

Unless otherwise stated the authors, as cited, employ the name Amphichelydia.

Abel, O. 1919 A, 411 (Amphichelyidæ).
Andrews, C. W. 1921 A, 152.
Arldt, T. 1907 D, 637 (Amphichelydidæ).
1909 D, 652 ("amphichelydiden").
Baur, G. 1891 E, 638.
Fraas, E. 1913 B, 14.
Fuchs, H. 1920 A, 357 ("amphichelydide").
Cooper, C. F. 1922 C, 156 (Amphichelyidæ).
Harrassowitz, H. 1922 A, 183.
Hay, O. P. 1904 A, 264.
1905 A, 137.
1905 D, 125.
1905 G, 331.
1905 H, 296.
Hay, O. P. 1905 J, 992.
1908 A, 43.
1912 E, 219.
1922 E, 425.
Huene, F. 1926 G, 511, 514 ("amphichelydiden").
Jaekel, O. 1911 A, 185 (Amphichelydii).
1916 A, 206 (Amphychelidea).
Lydekker, R. 1912 C, 28.
Matthew, W. D. 1915 K, 437.
Nopcsa, F. 1922 D, 156 (Amphichelydidæ).
1923 E, 1047 (Amphichelydia).
1923 F (Amphychelyia, Amphichelyidæ).
1923 H, 35, 39, 121, 168, tab. (Amphichelydæ).
1926 A, 651 (Amphichelyda).
1928 A, 165 (Amphichelonoidea)

Thyng, F. W. 1906 A, 51.
Versluys, J. 1914 A, 794.
Watson, D. M. S. 1907 A, 314.
  1914 H, 1013.
  1917 C, 178.
Wegner, T. 1911 A, 122.
Williston, S. W. 1908 G, 804.
  1914 A, 223.
  1925 B, 210, 223.
Zittel and Broili 1911 A, 247 (Amphichelydidæ).
  1923 A, 300.
Zittel, Eastman, etc. 1902 A, 204, 206.

PLEUROSTERNIDÆ Cope.

Cope, E. D. 1868 B, 282.
Hay, O. P. 1902 A, 437, in part.
Abel, O. 1919 A, 411.
Arldt, T. 1912 A, 668, 678.
Ballerstedt, M. 1921 A, 65 (Pleurosternum).
Cope, E. D. 1873 E, 621 (Baënidæ).
  1882 E, 143.
Gilmore, C. W. 1920 A, 11.
Hay, O. P. 1908 A, 45.
Marsh, O. C. 1890 E, 178 (Glyptopsidæ).
Matthew, W. D. 1921 D, 211.
Nopcsa, F. 1923 H, 122 (Pleurosternidæ, Pleurosterninæ).
  1928 A, 165 (Pleurosternidæ, Pleurosterninæ).
Watson, D. M. S. 1907 A, 314.
Williston, S. W. 1925 B, 223.
Zittel, Eastman, etc. 1902 A, 207.

Glyptops Marsh. Type *G. ornatus* Marsh = *Compsemys plicatulus* Cope.

Marsh, O. C. 1890 E, 177.
Hay, O. P. 1902 A, 437 (Compsemys, in part).
Andrews, C. W. 1921 A, 150, 152.
Hay, O. P. 1908 A, 45.
Huene, F. 1926 G, 511.
Nopcsa, F. 1923 D, 104.
  1923 F.
  1923 H, 32, 35, 36, 191.
Oertel, W. 1914 A, 105.
Simpson, G. G. 1926 E, 7.
Völker, H. 1913 A, 493.
Watson, D. M. S. 1910 A, 311.
Williston, S. W. 1925 B, 223.
Zittel and Broili 1923 A, 301.

Glyptops? belviderensis (Cragin).

Hay, O. P. 1902 A, 439 (Plesiochelys).
  1908 A, 53, pl. vii, figs. 3, 4.
  Lower Cretaceous (Comanche); Kansas.

Glyptops cælatus Hay.

Hay, O. P. 1908 A, 46, 52, pl. vii, figs. 1, 2; text-figs. 28-31.
Gilmore, C. W. 1916 A, 11.
  1921 E, 590.
  Lower Cretaceous (Potomac); Maryland.

Glyptops depressus Hay.

Hay, O. P. 1908 A, 46, 55, text-figs. 33, 34.
Bowen, C. F. 1915 A, 126.
Gilmore, C. W. 1916 A, 11.
  1920 A, 23.
  Upper Cretaceous (Denver or Arapahoe); Colorado.

Glyptops pervicax Hay.

Hay, O. P. 1908 A, 46, 54, text-fig. 32.
Gilmore, C. W. 1916 A, 11.
  Upper Cretaceous (Benton); Montana.

Glyptops plicatulus (Cope).

Hay, O. P. 1902 A, 437 (Compsemys).
Gilmore, C. W. 1909 B, 39 (G. ornatus).
  1914 A, 4, 25.
  1916 A, 7.
Hay, O. P. 1908 A, 20, 46, 47, pls. v, vi; text-figs. 17-27.
  1908 D, 161, text-fig. 1.
Huene, F. 1926 G, 511 (G. plicatilis).
Merrill, G. P. 1907 A, 72 (G. ornatus).
Mook, C. C. 1916 A, 155 (Compsemys, Glutops ornatus).
Nopcsa, F. 1923 F, 14, 15.
Stromer, E. 1912 A, 95, fig. 93.
Watson, D. M. S. 1910 A, 314.
Williston, S. W. 1905 B, 346 [Compsemys plicatulus (Glutops ornatus)].
  Upper Jurassic or Lower Cretaceous (Morrison); Wyoming, Colorado.

Glyptops utahensis Gilmore.

Gilmore, C. W. 1916 A, 7, pls. i, ii; text-figs. 1, 2.
  Upper Jurassic or Lower Cretaceous (Morrison); Utah.

Neurankylus Lambe. Type *N. eximius* Lambe.

Lambe, L. M. 1902 A, 42.
Gilmore, C. W. 1916 D, 289.
  1920 A, 11.
Hay, O. P. 1908 A, 93.
Nopcsa, F. 1923 F, 15.
  1923 H, 35.
Williston, S. W. 1925 B, 224.
Gilmore, C. W. 1920 A, 8, 10, 11.
Reeside, J. B. 1924 A, 23.
  Upper Cretaceous (Kirtland); New Mexico.

Neurankylus baueri Gilmore.

Gilmore, C. W. 1916 D, 290, pls. lxxiv, lxxv; text-figs. 32, 33.
  1919 C, 113.

Neurankylus eximius Lambe.

Lambe, L. M. 1902 A, 42, text-fig. 7.
Bowen, C. F. 1915 A, 122.
Brown, B. 1914 E, 378.
Gilmore, C. W. 1916 D, 289, fig. 31.
Hatcher, J. B. 1905 B, 79.
Hay, O. P. 1908 A, 94, text-fig. 90.
Knowlton, F. H. 1911 C, 59, 62.

Lambe, L. M. 1904 C, 22, 37, 47.
1906 A, 194.
Matthew, W. D. 1916 A, 484.
Osborn, H. F. 1902 H, 674.
1902 I, 12, 17.
Upper Cretaceous (Belly River); Alberta.

Neurankylus wyomingensis Gilmore.

Gilmore, C. W. 1919 C, 113-115, pls. xxix, xxx.
Upper Cretaceous (Colorado); Wyoming.

BAËNIDÆ Cope.

Cope, E. D. 1883 E, 143.
Hay, O. P. 1902 A, 437 (Pleurosternidæ, in part).
Arldt, T. 1912 A, 668, 678, 688, 714.
Cooper, C. F. 1922 C, 156.
Cope, E. D. 1880 U, 152.
Gilmore, C. W. 1920 A, 24.
Hay, O. P. 1903 B, 203.
1908 A, 18, 56.
1922 E, 438.
Huxley, T. H. 1887 C, 234.
Lydekker, R. 1886 G, 522.
Matthew, W. D. 1914 B, 387.
1921 D, 211, 214.
Nopcsa, F. 1922 D, 156.
1923 H, 39.
1928 A, 165 (Baëninæ).
Stefano, G. 1917 A, 282, 286.
Watson, D. M. S. 1907 A, 314.
Williston, S. W. 1925 B, 224.

PROBAËNA Hay. Type *P. sculpta* Hay.

Hay, O. P. 1903 B, 201.
1908 A, 58.
Nopcsa, F. 1923 H, 35.
Simpson, G. G. 1926 E, 7.
1926 H, 204.
Williston, S. W. 1925 B, 224.
Zittel and Broili 1911 A, 248.
1923 A, 301.

Probaëna sculpta Hay.

Hay, O. P. 1903 B, 201, pl. iii, figs. 1, 2.
Gilmore, C. W. 1914 A, 25.
Hay, O. P. 1908 A, 58, pl. vii, fig. 5.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

BAËNA Leidy. Type *B. arenosa* Leidy.

Leidy, J. 1870 S, 123.
Hay, O. P. 1902 A, 437.
Boulenger, G. A. 1918 E, 515.
Dollo, L. 1886 A, pl. ii, fig. 11.
Fraas, E. 1913 B, 15, 29.
Gilmore, C. W. 1917 A, 107.
1920 A.
Hay, O. P. 1901 A, 325.
1903 B, 201.
1903 H, 350.
1904 A, 265.
1905 A, 138.
1905 G, 331.
1905 I, 297.
1908 A, 20, 59.
1922 E, 438.
Leidy, J. 1873 B, 161, 341, pl. xiii, figs. 1-3; pl. xvi, figs. 8-9.
Lydekker, R. 1889 E, 518.
Nopcsa, F. 1923 F.
1923 H, 31, 32, 34-36, 186, 191, pl. v, fig. 6.
Osborn, H. F. 1902 H, 673.
Williston, S. W. 1902 K, 953.
1925 B, 224.
Zittel and Broili 1911 A, 248.
1923 A, 301.
Zittel, Eastman, etc. 1902 A, 207.

Baëna antiqua Lambe.

Lambe, L. M. 1902 A, 44, text-fig. 10.
Bowen, C. F. 1915 A, 122.
Brown, B. 1914 E, 378.
Gilmore, C. W. 1919 C, 116-119, pls. xxxi, xxxii; text-figs. 1, 2.
Hatcher, J. B. 1905 B, 78.
Hay, O. P. 1905 B, 182.
1908 A, 62, text-figs. 37, 38.
Knowlton, F. H. 1911 C, 59, 63.
Lambe, L. M. 1904 C, 22, 37, 47.
1906 A, 189.
1906 B, 233.
1907 B, 179.
Matthew, W. D. 1916 A, 484.
Nopcsa, F. 1923 F, 15, 16.
Osborn, H. F. 1902 H, 674.
1902 I, 12, 17.
Upper Cretaceous (Belly River); Alberta.

Baëna arenosa Leidy.

Hay, O. P. 1902 A, 437.
Gilmore, C. W. 1915 H, 107, pl. xviii, fig. 1; text-fig. 1.
Hay, O. P. 1905 A, 140.
1908 A, 67, pls. xii, xiii, fig. 1; pl. xiv, figs. 1-3; text-figs. 44-51.
Huene, F. 1926 G, 511.
Lambe, L. M. 1906 B, 233.
Merrill, G. P. 1907 A, 64.
Middle Eocene (Bridger); Wyoming.

Baëna callosa Hay.

Hay, O. P. 1905 B, 178, text-figs. 1, 2.
Bowen, C. F. 1915 A, 122.
Hay, O. P. 1908 A, 60, pl. viii, fig. 1; text-figs. 35, 36.
Upper Cretaceous (Judith River); Montana.

Baëna clara Hay.

Hay, O. P. 1908 A, 74, pl. xvi, figs. 1, 2; text-figs. 57, 58.
Gilmore, C. W. 1915 H, 116.
Nopcsa, F. 1923 F, 14, 15, 16.
Middle Eocene (Bridger); Wyoming.

Baëna emiliæ Hay.

Hay, O. P. 1908 A, 80, pl. xx, figs. 1, 2; text-figs. 67, 68.
Gilmore, C. W. 1915 H, 109.
Upper Eocene (Uinta); Utah.

Baëna escavada Hay.

Hay, O. P. 1908 A, 65, pl. xi, figs. 1, 2; text-figs. 42, 43.
Gilmore, C. W. 1920 A, 10.
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 42.
Paleocene (Torrejon); New Mexico.

Baëna gigantea Gilmore.

Gilmore, C. W. 1915 H, 116, pl. xx, figs. 1, 2; text-figs. 5-7.
Upper Eocene (Uinta); Utah.

Baëna hatcheri Hay.

Hay, O. P. 1901 A, 385, pl. xv.
Bowen, C. F. 1915 A, 122.
Gilmore, C. W. 1915 H, 117.
1916 D, 293.
1919 C, 123.
Hatcher, J. B. 1903 D, 372.
1905 B, 79.
Hay, O. P. 1903 D, 118.
1904 A, 261.
1905 B, 181.
1908 A, 63, pls. ix, x; text-figs. 40, 41.
Knowlton, F. H. 1911 C, 59, 63.
Lambe, L. M. 1902 A, 43, figs. 8, 9.
1904 C, 22, 36, 47.
1906 B, 233.
Nopcsa, F. 1923 F, 15.
Osborn, H. F. 1902 H, 674.
1902 I, 12, 17.
Williston, S. W. 1902 K, 953.
Upper Cretaceous (Lance); Wyoming: (Belly River); Alberta.

Baëna hayi Gilmore.

Gilmore, C. W. 1916 C, 641, pls. xxxii, xxxiii.
Nopcsa, F. 1923 F, 14.
Upper Cretaceous (Lance); Wyoming.

Baëna inflata Gilmore.

Gilmore, C. W. 1915 H, 112, pl. xix; text-figs. 2, 3.
Upper Eocene (Uinta); Utah.

Baëna marshi Hay.

Hay, O. P. 1904 A, 261, pl. xi; text-fig. 1.
Bowen, C. F. 1915 A, 122.
Hay, O. P. 1905 B, 181.
1908 A, 62, pl. viii, fig. 2; text-fig. 39.
Lambe, L. M. 1906 B, 233.
Upper Cretaceous (Lance); Wyoming.

Baëna nodosa Gilmore.

Gilmore, C. W. 1916 D, 293, pl. lxxvi; text-figs. 34, 35.
1920 A, 8, 10, 24.
Reeside, J. B. 1924 A, 21, 23, 27.
Upper Cretaceous (Kirtland, McDermott, Fruitland); New Mexico.

Baëna platyplastra Gilmore.

Gilmore, C. W. 1915 H, 120, pl. xviii, fig. 2; text-fig. 8.
Upper Eocene (Uinta); Utah.

Baëna riparia Hay.

Hay, O. P. 1908 A, 76, pls. xvii-xix, figs. 1-3; text-figs. 59-66.
Huene, F. 1920 D, 166.
Nopcsa, F. 1923 F, 13, 16.
Völker, H. 1913 A, 493.
Middle Eocene (Bridger); Wyoming.

Baëna sima Hay.

Hay, O. P. 1908 A, 71, pl. xiii, figs. 2, 3; pl. xiv, figs. 4-6; pl. xv; text-figs. 52-56.
Gilmore, C. W. 1915 H, 112.
Huene, F. 1926 G, 511.
Nopcsa, F. 1923 D, 104.
1923 F, 2.
Middle Eocene (Bridger); Wyoming.

Baëna sp. indet.

Gilmore, C. W. 1920 A, 8, 24. Upper Cretaceous (Kirtland); 10, 24: Paleocene (Torrejon); 9, 24 (Puerco); New Mexico.
1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
Reeside, J. B. 1924 A, 38. Upper Cretaceous (Puerco); New Mexico.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.

EUBAENA Hay. Type *E. cephalica* Hay.

Hay, O. P. 1908 A, 82.
1910 B, 294.
Nopcsa, F. 1923 F, 6.
Williston, S. W. 1925 B, 224.

Eubaëna cephalica Hay.

Hay, O. P. 1904 A, 263, pl. xii, figs. 1-3 (Baëna).
Bowen, C. F. 1915 A, 126.
Hay, O. P. 1905 A, 138 (Baëna).
1908 A, 82, pl. xix, fig. 4; pl. xxi, figs. 1-2.
Lambe, L. M. 1906 B, 233 (Baëna).
Nopcsa, F. 1923 F, 2.
Upper Cretaceous (Lance); Wyoming.

Eubaëna latifrons Hay.

Hay, O. P. 1908 A, 83, text-figs. 69, 70.
Bowen, C. F. 1915 A, 126.
Upper Cretaceous (Lance); Wyoming.

CHISTERNON Leidy. Type *C. undatum* Leidy.

Leidy, J. 1872 L, 162.
Hay, O. P. 1902 A, 436 (Baëna, in part).
Harrassowitz, H. 1922 A, 183.
Hay, O. P. 1908 A, 20, 84.
Nopcsa, F. 1923 E, 1053.
1923 F.
1923 H, 34, 35 (Chisternum).

Chisternon hebraicum (Cope).

Cope, E. D. 1872 NN, 4 (Baëna).
Hay, O. P. 1902 A, 438 (Baëna).
1906 C, 156, text-fig. 1.
1908 A, 87, pl. xxi, figs. 3, 4; pl. xxiii, fig. 1; text-figs. 76-87.
Lambe, L. M. 1906 B, 233 (Baëna).
Merrill, G. P. 1907 A, 64 (Baëna).
Nopcsa, F. 1923 D, 104.
Völker, H. 1913 A, 492.
Middle Eocene (Bridger); Wyoming.

Chisternon? interpositum Hay.

Hay, O. P. 1909 B, 194, text-figs. 2, 3.
Paleocene (Fort Union); Montana.

Chisternon undatum Leidy.

Hay, O. P. 1902 A, 438 (Baëna).
1905 A, 138, 140, text-figs. 1-3 (Baëna).
1906 C, 156.
1908 A, 85, pl. xxii; text-figs. 71-75.
Middle Eocene (Bridger); Wyoming.

BOREMYS Lambe. Type *Baëna pulchra* Lambe.

Lambe, L. M. 1906 B, 232.
Hay, O. P. 1908 A, 91.
1909 B, 194.
Nopcsa, F. 1923 H, 35, 36.
Versluys, J. 1914 A, 801.
1914 B, 337, 338.
Williston, S. W. 1925 B, 224.

Boremys albertensis Gilmore.

Gilmore, C. W. 1919 C, 119-123, pls. xxxiii, xxxiv; text-figs. 3, 4.
Nopcsa, F. 1923 F, 14.
Upper Cretaceous (Belly River); Alberta.

Boremys pulchra Lambe.

Lambe, L. M. 1906 A, 189, pl. iii, fig. 4; pl. iv (Baëna).
Bowen, C. F. 1915 A, 122.
Brown, B. 1914 E, 378.
Gilmore, C. W. 1919 C, 121.
Hay, O. P. 1906 C, 156.
1908 A, 92, text-figs. 88, 89.
Lambe, L. M. 1906 B, 232.
1914 A, 13, text-figs.
1914 F, 294.
Matthew, W. D. 1916 A, 484.
Nopcsa, F. 1923 F, 14, 15.
Upper Cretaceous (Belly River); Alberta.

THESCELUS Hay. Type *T. insiliens* Hay.

Hay, O. P. 1908 A, 94.
1910 B, 294.
Nopcsa, F. 1923 H, 35.
1928 A, 165.
Williston, S. W. 1925 B, 224.

Thescelus insiliens Hay.

Hay, O. P. 1908 A, 95, pls. xxiv, xxv.
Bowen, C. F. 1915 A, 126.
Brown, B. 1914 E, 380.
Upper Cretaceous (Lance); Wyoming.

Thescelus rapiens Hay.

Hay, O. P. 1908 A, 97, figs. 91, 92.
Brown, B. 1910 A, 269 (T. repiens).
1914 E, 380.
Gilmore, C. W. 1916 D, 295, fig. 36.
1920 A, 9.
Reeside, J. B. 1924 A, 31.
Sinclair and Granger 1914 A, 303.
Upper Cretaceous (Ojo Alamo); New Mexico.

Thescelus sp. indet.

Gilmore, C. W. 1924 D, 27 (This genus?). Upper Cretaceous (Lance); Saskatchewan.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.

CHARITEMYS Hay. Type *C. captans* Hay.

Hay, O. P. 1908 A, 98.
Williston, S. W. 1925 B, 224.

Charitemys captans Hay.

Hay, O. P. 1908 A, 98, text-figs. 93-95.
Upper Cretaceous (Judith River); Montana.

POLYTHORAX Cope. Type *P. missuriensis* Cope.

Hay, O. P. 1902 A, 438.
1908 A, 18, 100.
Nopcsa, F. 1928 A, 165.
Williston, S. W. 1925 B, 224.

Polythorax missuriensis Cope.

Hay, O. P. 1902 A, 438.
Bowen, C. F. 1915 A, 126.
Hatcher, J. B. 1905 B, 77.
Hay, O. P. 1908 A, 100.
Knowlton, F. H. 1911 C, 59, 62.
Osborn, H. F. 1902 H, 674.
1902 I, 12, 17.
Upper Cretaceous (Judith River); Montana.

NAOMICHELYS Hay. Type *N. speciosa* Hay.

Hay, O. P. 1908 A, 101.
Nopcsa, F. 1923 H, 166, 191.
Williston, S. W. 1925 B, 224.

Naomichelys speciosa Hay.

Hay, O. P. 1908 A, 101, pl. xl, figs. 2, 3.
Upper Jurassic or Lower Cretaceous (Morrison); Montana.

Superfamily CHELYDOIDÆ, new name.

Unless otherwise indicated the authors, as cited, use for this group the name *Pleurodira*.

Hay, O. P. 1902 A, 436.
Abel, O. 1919 A, 406.
1920 A, 363.
Andrews, C. W. 1906 A, xxiv.
Arldt, T. 1907 D, 674.
1909 D, 652 ("pleurodiren").
Baur, G. 1891 E, 631.
Boulenger, G. A. 1918 E, 515 ("pleurodires").
Case, E. C. 1898 C, 728.
Cope, E. D. 1891 N, 39.
Diener, C. 1909 A, 36.
Dollo, L. 1886 B, 130.
1889 B, 669.
1903 A, 19 ("pleurodères").
1903 C, 807 ("pleurodères").
1913 A, 50 ("pleurodères").
1913 B, 623 ("pleurodères").
Fraas, E. 1903 A, 88, 100.
Fuchs, H. 1907 B, 433.
1908 C, 155 ("pleurodiren").
1909 B, 143 ("pleurodiren").
1912 B, 83 ("pleurodiren").
1920 A, 370.
1920 B, 12.
Gadow, H. 1901 B, 388.
1905 B, 639 (Pleurodires).
Hay, O. P. 1905 A, 137, 170.
1905 D, 125.
1905 G, 331.
1905 I, 297.
1905 J, 992.
1908 A, 12, 34, 43, 102.
1912 E, 219.
1922 E, 421, 439.
1928 A, 6.
Jaekel, O. 1911 A, 185 (Pleurodiri).
1916 A, 206, 213 ("pleurodiren").
Kasper, A. 1903 A, 137, 147.
Koken, E. 1893 B, 272, 397.
Lydekker, R. 1889 E (Pleurodira, Amphichelydia).
1912 C, 28, 127.
Matthew, W. D. 1915 A, 284.
1915 K, 437.
Nopcsa, F. 1923 F.
1923 H, 36, 37, 39, 122, 165, 167, 168, tab.
1928 A, 166 (Pleurodira).
Reynolds, S. H. 1897 A, 195.
Siebenrock, F. 1906 A, 829 (Chelydidæ).
1909 A, 554.
Siegelbauer, F. 1909 A, 185 (Pleurodiræ).
Stannius, H. 1856 A (Emydea monimopelyca).
Stehli, G. 1910 A, 788.
Steinmann, G. 1907 A, 435.
Stromer, E. 1912 A, 96.
Tornier, G. 1913 B, 365.
Valliant, L. 1881 A.
Versluys, J. 1914 A, 793.
1914 B, 325 ("pleurodiren").
1919 A, 15 ("pleurodiren").
Waite, E. R. 1905 A, 117.
Wamich, P. 1913 A, 14 ("pleurodiren").
Watson, D. M. S. 1914 H, 1012 (Pleurodeira).
1917 C, 177 (Pleurodeira).
Williston, S. W. 1908 G, 804.
1914 A, 16, 45, 222, 224.
1925 A, 198.
1925 B, 210, 223, 224.
Woodward, A. S. 1888 O, 352.
1898 B, 175.
1901 B, 182.
Zdansky, O. 1924 A, 91, 98.
Zittel and Broili 1911 A, 247.
1923 A, 302.
Zittel, Eastman, etc. 1902 A, 203.

BOTHREMYDIDÆ Baur.

Hay, O. P. 1902 A, 438 (Pelomedusidæ).
Arldt, R. 1912 A, 688.
Hay, O. P. 1908 A, 102.
Nopcsa, F. 1923 H, 122, 193.
1928 A, 166.
Zittel and Broili 1911 A, 248.
1923 A, 303.

BOTHREMYS Leidy. Type *B. cookii* Leidy.

Hay, O. P. 1902 A, 438.
1908 A, 102.
Nopcsa, F. 1928 A, 166.
Williston, S. W. 1901 B, 198.
1925 B, 224.
Zittel and Broili 1911 A, 248.

Bothremys cookii Leidy.

Hay, O. P. 1902 A, 438.
1908 A, 103, pl. xxiii, figs. 2, 3; text-figs. 96, 97.

Upper Cretaceous? (Navesink-Hornerstown?); New Jersey.

TAPHROSPHYS Cope. Type *Platemys sulcatus* Leidy.

Hay, O. P. 1902 A, 438.
1908 A, 102, 104.
Nopcsa, F. 1923 F, 17.
1928 A, 166.
Williston, S. W. 1925 B, 224.

Taphrosphys dares Hay.

Hay, O. P. 1908 A, 120, text-figs. 121-124.
Stephenson, L. W. 1912 A, 120.

Upper Cretaceous (Ripley); Georgia. Also in Black Creek formation, North Carolina, *fide* Gilmore.

Taphrosphys leslianus Cope.

Hay, O. P. 1902 A, 438.
1908 A, 111, text-figs. 103-106.
Upper Cretaceous; New Jersey.

Taphrosphys longinuchus Cope.

Hay, O. P. 1902 A, 438.
1908 A, 108, text-figs. 101, 102.
Upper Cretaceous? (Hornerstown?); New Jersey.

Taphrosphys molops Cope.

Hay, O. P. 1902 A, 438.
Cope, E. D. 1869 M, 158, 159, figs. 43, 44, pl. vii; fig. 16.
Hay, O. P. 1908 A, 115, text-figs. 112-120.
Upper Cretaceous? (Navesink); New Jersey.

Taphrosphys nodosus Cope.

Hay, O. P. 1902 A, 438.
1908 A, 122.
Upper Cretaceous? (Hornerstown); New Jersey.

Taphrosphys strenuus Cope.

Hay, O. P. 1902 A, 438.
Dall and Harris 1892 A, 85 (Taphrasphys).
Hay, O. P. 1908 A, 114, text-figs. 107-111.
Upper Cretaceous? (Navesink-Hornerstown); New Jersey.

Taphrosphys sulcatus (Leidy).

Hay, O. P. 1902 A, 439.
Cope, E. D. 1869 M, 159, 164, text-figs. 45, 45*bis* (Taphrosphys); 165, pl. xi, fig. 2 (Prochonias).
Hay, O. P. 1908 A, 106, text-figs. 98-100.
Upper Cretaceous (Tinton); New Jersey.

AMBLYPEZA Hay. Type *A. entellus* Hay.

Hay, O. P. 1908 A, 102, 122.
Nopcsa, F. 1928 A, 166.
Williston, S. W. 1925 B, 224.

Amblypeza entellus Hay.

Hay, O. P. 1908 A, 122, figs. 125, 132.
Upper Cretaceous? (Greensand); New Jersey.

NAIADOCHELYS Hay. Type *N. ingravata* Hay.

Hay, O. P. 1908 A, 102, 125.
Nopcsa, F. 1928 A, 166.
Williston, S. W. 1925 B, 224.
Zittel and Broili 1911 A, 248.

Naiadochelys ingravata Hay.

Hay, O. P. 1908 A, 125, text-fig. 133.
Upper Cretaceous (Mesa Verde); New Mexico.

Superfamily THALASSEMYDOIDÆ, new name.

Zittel, Eastman, etc. 1902 A, 199 (Chelydroidea, in part).

THALASSEMYDIDÆ Rütimeyer.

Hay, O. P. 1902 A, 440.
Abel, O. 1919 A, 397 ("thalassemydiden").
Arldt, T. 1907 D, 645 (Chelonemydidæ); 685 (Thalassemydidæ).
Dollo, L. 1887 B, 393 (Propleuridæ).
1903 A, 813 ("thalassémydes").
1903 C ("thalassémydes").
Fraas, E. 1903 A, 88.
1905 B, 364 ("thalassemyden").
Fuchs, H. 1909 B, 152.
1920 A, 357 (Thalassemydæ).
Gadow, H. 1901 B, 380.
Hay, O. P. 1905 A, 146, 148.
1908 A, 126.
Hoernes, R. 1886 A, 591 (Thalassemidæ).
Lydekker, R. 1889 A, 147 (Acichelyidæ).
Nopcsa, F. 1923 F, 13, 16, 122 (Thalassemyidæ); 35, 36, 39, 122 (Cheloniidæ, in part); 122 (Lytolominæ).
Nopcsa, F. 1928 A, 166 (Thalassemydidæ, Thalassemydinæ).
Rütimeyer, L. 1873 A, 125 ("thalassemyden"); 173 ("chelonemyden").
Tornier, G. 1913 B, 365.
Wegner, T. 1911 A, 105.
Wieland, G. R. 1904 A, 127 (Propleuridæ, Lytolomidæ).
1904 B, 193 (Propleurinæ).
Williston, S. W. 1925 B, 225.
Zittel and Broili 1911 A, 250.
1923 A, 304.
Zittel, Eastman, etc. 1902 A, 199.

The genera here included under the name Thalassemydidæ may, on further increase of knowledge, be distributed among two or more families.

OSTEOPYGIS Cope. Type *O. emarginatus* Cope.

Hay, O. P. 1902 A, 441.
Abel, O. 1919 A, 401.
Dollo, L. 1886 B, 131.
Hay, O. P. 1905 A, 152.
1908 A, 127.
Heilprin, A. 1887 A, 315.
Nopcsa, F. 1923 F.
1923 H, 37, 191.
1926 A, 656.
Wieland, G. R. 1902 A, 108.
1904 A, 118 (Osteopygis); 125, 129 (Propleura).

Wieland, G. R. 1904 B, 188, 192, 193 (Osteopygis); 188 (Propleura).
1905 A, 329.
Williston, S. W. 1925 B, 225.
Zittel and Broili 1911 A, 251.
1923 A, 305.
Zittel, Eastman, etc. 1902 A, 198.

Osteopygis borealis (Wieland).

Wieland, G. R. 1904 A, 129, pl. ix (Propleura).
Hay, O. P. 1902 A, 441 (Osteopygis sopitus, in part).
Cope, E. D. 1868 E, 147 (Osteopygis sopitus).
1869 B, 735 (Propleura sopita).
1869 K, 88 (Propleura sopita).
1869 M, 140, pl. vii, figs. 4-7; text-fig. 39 (Propleura sopita).
1875 E, 258 (Osteopygis sopitus, in part).
Hay, O. P. 1908 A, 128, 141, pl. xxvi, fig. 3; text-figs. 163-171.
Wieland, G. R. 1904 B, 190, fig. 4 (Propleura).
Upper Cretaceous? (Hornerstown?); New Jersey.

Osteopygis chelydrinus Cope.

Hay, O. P. 1902 A, 441.
1908 A, 128, 136, pl. xxiii, figs. 4-7; pl. xxviii, figs. 1-4; text-figs. 152-154.
Upper Cretaceous (Navesink); New Jersey.

Osteopygis emarginatus Cope.

Hay, O. P. 1902 A, 441.
1908 A, 128, 129, text-figs. 134-141.
Wieland, G. R. 1904 A, 126.
Upper Cretaceous (Navesink); New Jersey.

Osteopygis erosus Cope.

Hay, O. P. 1902 A, 441.
1908 A, 128, 138, pl. xxvi, fig. 2; text-figs. 155-162.
Wieland, G. R. 1904 A, 130 (Propleura).
Upper Cretaceous? (Navesink-Hornerstown); New Jersey.

Osteopygis gibbi Wieland.

Wieland, G. R. 1904 A, 118, pls. v-viii; text-figs. 3-8.
Hay, O. P. 1908 A, 128, 132, pl. xxvi, fig. 1; pl. xxvii, figs. 1, 2; text-figs. 142-146.
Nopcsa, F. 1923 F, 20.
Wieland, G. R. 1904 B, 188.
1906 B, 12, fig. 5.
Upper Cretaceous? (Navesink-Hornerstown); New Jersey.

Osteopygis platylomus Cope.

Hay, O. P. 1902 A, 441.
1908 A, 128, 146, text-figs. 172-180.
Wieland, G. R. 1904 A, 126.
Upper Cretaceous? (Navesink-Hornerstown); New Jersey.

Osteopygis robustus Hay.

Hay, O. P. 1908 A, 128, 137, text-figs. 147-151.
Upper Cretaceous? (Navesink-Hornerstown); New Jersey.

Osteopygis sopitus (Leidy).

Hay, O. P. 1902 A, 441.
1908 A, 128, 149, text-figs. 181-184.
Wieland, G. R. 1904 A, 130 (Propleura).
Upper Cretaceous (Tinton); New Jersey.

CATAPLEURA Cope. Type *C. repanda* Cope.

Cope, E. D. 1869 M, 143, 235.
Hay, O. P. 1902 A, 441 (Osteopygis).
Dollo, L. 1886 B, 130.
Hay, O. P. 1908 A, 127, 150.
Nopcsa, F. 1923 H, 37.
Williston, S. W. 1925 B, 225.

Catapleura ponderosa Cope.

Hay, O. P. 1902 A, 441 (Osteopygis).
1908 A, 152, text-figs. 189, 190.
Upper Cretaceous (Navesink); New Jersey.

Catapleura repanda Cope.

Hay, O. P. 1902 A, 441 (Osteopygis).
Cope, E. D. 1869 B, 735 (Propleura; no description).
Hay, O. P. 1908 A, 150, text-figs. 185-188.
Upper Cretaceous? (Navesink-Hornerstown?); New Jersey.

LYTOLOMA Cope. Type *L. angusta* Cope.

Hay, O. P. 1902 A, 441.
Abel, O. 1912 F, 528, 616.
1919 A, 401.
Dollo, L. 1886 B, 131.
1887 B, 394 (Euclastes).
1888 G, 107 (Euclastes).
1903 A.
1903 C.
Fuchs, H. 1920 A, 357 (Euclastes).
Hay, O. P. 1905 A, 153.
1908 A, 154.
Huene, F. 1902 A, 48, figs. 55, 59 (Euclastes).
Lydekker, R. 1912 C, 135.
1889 N, 177.
Nopcsa, F. 1923 F, 13, 14.
Nopsca, F. 1923 H, 37, 191.
Wieland, G. R. 1902 A, 96.
1904 B, 183, 192, 193.
1905 A, 332.
1906 A, 294.
1906 B, 13.
Williston, S. W. 1925 B, 225.
Woodward, A. S. 1898 B, 174.
Zittel and Broili 1911 A, 251.
Zittel, Eastman, etc. 1902 A, 198.

Lytoloma angusta Cope.

Hay, O. P. 1902 A, 442.
1908 A, 155, pl. xxviii, figs. 5, 6; text-figs. 191, 192.

Völker, H. 1913 A, 532.
Wieland, G. R. 1904 B, 184, pls. vi-viii; text-figs. 1, 2, 3.
1905 A, 322, fig. 5.
Upper Cretaceous? (Hornerstown?); New Jersey.

Lytoloma jeanesii Cope.

Hay, O. P. 1902 A, 442.
1908 A, 156, figs. 193-195.
Upper Cretaceous (Hornerstown); New Jersey.

Lytoloma wielandi Hay.

Hay, O. P. 1908 A, 157, pl. xxviii, figs. 7, 8; pl. xxix, fig. 1; text-figs. 196, 197.
Versluys, J. 1914 B, 337 (Syn.? of L. angusta).
Upper Cretaceous? (Hornerstown?); New Jersey.

Lytoloma? sp. indet.

Hay, O. P. 1902 A, 442.
Case, E. C. 1901 A, 97 (Euclastes).
Clark, W. B. 1895 A.
1897 A, 59.
Clark and Miller 1912 A, 117, 118 (Euclastes).
Eocene (Aquia); Maryland.

ERQUELINNESIA Dollo. Type *E. gosseleti* Dollo.

Dollo, L. 1887 B, 393.
Hay, O. P. 1908 A, 160.
Lydekker, R. 1889 G, 51 (Syn. of Lytoloma).
Nopcsa, F. 1923 H, 37 (Erquellinesia).
Zittel, K. A. 1890 A, 526 (Syn. of Euclastes).

Erquelinnesia molaria Hay.

Hay, O. P. 1908 A, 160, text-figs. 198, 199.
Cretaceous? (Navesink-Hornerstown); New Jersey.

RHETECHELYS Hay. Type *Euclastes platyops* Cope.

Hay, O. P. 1908 A, 161.
Heilprin, A. 1887 A, 315 (Euclastes).
Nopcsa, F. 1923 H, 37 (Rethechelys).
Zittel and Broili 1911 A, 251.
1923 A, 305.

Rhetechelys platyops (Cope).

Hay, O. P. 1902 A, 442 (Lytoloma).
Cope, E. D. 1869 M, 149, pl. vi; pl. vii, fig. 9 (Euclastes).
Hay, O. P. 1908 A, 162, pl. xxix, figs. 2, 3.
Wieland, G. R. 1904 B, 185 (Lytoloma).
Upper Cretaceous? (Hornerstown?); New Jersey.

Superfamily CHELONIOIDÆ, new form.

Abel, O. 1922 C, 321, 326 ("seeschildkröten").
Nick, L. 1912 A, 214 (Chelonioidea).
Rabl, C. 1903 A, 164 ("eretmopoden").
Siebenrock, F. 1909 A, 544 (Cheloniidea).
Valliant, L. 1894 A, 341 (Phanerodermea?).
Wieland, G. R., 1902 A, 107.
1909 A, 102.
Zdansky, O. 1924 A, 91 (Cheloniidea).
Zittel and Broili 1911 A, 252 (Cheloniidea).
1923 A, 307 (Cheloniidea).
Zittel, Eastman, etc. 1902 A, 197 (Chelonoidea).

DESMATOCHELYIDÆ Williston.

Hay, O. P. 1902 A, 442.
1908 A, 184.
Nopcsa, F. 1928 A, 166 (Desmemydinæ).
Wieland, G. R. 1902 A, 108 (Desmatochelydinæ).
1906 B, 13 (Desmatochelydinæ).
Williston, S. W. 1925 B, 225.
Zittel and Broili 1911 A, 255.
1923 A, 311.
Zittel and Koken 1911 A, 255.

DESMATOCHELYS Williston. Type *D. lowii* Williston.

Hay, O. P. 1902 A, 443.
Boulenger, G. 1885, Zool. Record, Rept. 29 (Desmochelys).
Dollo, L. 1903 A, 780.
1903 C.
Hay, O. P. 1908 A, 184.
Nopcsa, F. 1923 H, 32.
1928 A, 166.
Williston, S. W. 1914 A, 231.
1925 B, 225.
Zittel and Broili 1911 A, 255.
Zittel and Broili 1923 A, 311.
Zittel, Eastman, etc. 1902 A, 199.
Zittel and Koken 1911 A, 255.

Desmatochelys lowii Willist.

Hay, O. P. 1902 A, 443.
1908 A, 185, text-figs. 238-243.
Longman, H. A. 1915 A, 28.
Williston, S. W. 1914 A, 232, fig. 122.
Upper Cretaceous (Benton); Nebraska.

NEPTUNOCHELYS Wieland. Type *Protostega tuberosa* Cope.

Hay, O. P. 1902 A, 440.
1908 A, 187.
Nopcsa, F. 1928 A, 166.
Williston, S. W. 1925 B, 225 (Neptunichelys).
Zittel and Broili 1911 A, 255.

Neptunochelys tuberosa (Cope).

Hay, O. P. 1902 A, 440.
Ford, J. 1879 A, 636 (Protostega).
Hay, O. P. 1908 A, 187, fig. 244.
Wieland, G. R. 1902 A, 96.
Upper Cretaceous; Mississippi.

ATLANTOCHELYS Agassiz. Type *A. mortoni* Agassiz.

Hay, O. P. 1902 A, 440.
1908 A, 188.
Nopcsa, F. 1928 A, 166.
Williston, S. W. 1925 B, 225.

Atlantochelys mortoni Agassiz.

Hay, O. P. 1902 A, 440.
Cope, E. D. 1875 E, 257 (Protostega neptunia).
Ford, J. 1879 A, 636 (Protostega neptunia).
Hay, O. P. 1908 A, 188, fig. 245.
Longman, H. A. 1915 A, 28.
Upper Cretaceous; New Jersey.

PROTOSTEGIDÆ Cope.

Hay, O. P. 1902 A, 439.
Arldt, T. 1909 D, 653 ("protostegiden").
Goette, A. 1899 A, 428 (Protosphargidæ).
Hay, O. P. 1908 A, 189.
Jaekel, O. 1915 A, 104 ("protostegiden").
Longman, H. A. 1915 A, 24.
Nopcsa, F. 1928 A, 167 (Protosteginæ).
Versluys, J. 1914 A, 793.
1914 B, 324.
Völker, H. 1913 A, 491.
Wieland, G. R. 1902 A, 107 (Protosteginæ).
1903 A, 214 (Protosteginæ).
1906 B, 8 (Protosteginæ).
1909 A, 101, 102.
Williston, S. W. 1914 A, 231.
1925 B, 225.
Zittel and Broili 1911 A, 254.
1923 A, 309.
Zittel, Eastman, etc. 1902 A, 197.

PROTOSTEGA Cope. Type *P. gigas* Cope.

Hay, O. P. 1902 A, 439.
Abel, O. 1922 C, 320.
Andrews, C. W. 1919 A, 316.
Case, E. C. 1898 C, 726.
Dollo, L. 1903 C, 808.
Hay, O. P. 1905 A, 149.
1908 A, 190.
1912 E, 218.
1928 A, 4.
Longman, H. A. 1915 A, 28.
Merriam, J. C. 1912 B, 221.
Nopcsa, F. 1923 F, 14.
1923 H, 164, 191.
Sternberg, C. H. 1905 A, 123
Tornier, G. 1913 B, 365.
Völker, H. 1913 A, 504.
Werner, F. 1898 A, 280.
Wieland, G. R. 1902 A, 99.
1906 A, 279.
1906 B, 8
1909 A, 102.
Williston, S. W. 1902 A, 276.
1909 A, 398.
1925 A, 179.
1925 B, 225.
Zittel and Broili 1911 A, 254.
1923 A, 309.
Zittel and Eastman, etc. 1902 A, 197.

Protostega advena Hay.

Hay, O. P. 1908 A, 199, text-figs. 256-259.
1912 E, 218.
Wieland, G. R. 1909 A, 103, 117.
Upper Cretaceous (Niobrara); Kansas.

Protostega copei Wieland.

Wieland, G. R. 1909 A, 103, 104, figs. 1-4.
Abel, O. 1922 C, 319, figs. 276, 277.
Williston, S. W. 1914 A, 238.
Upper Cretaceous (Niobrara); Kansas.

Protostega gigas Cope.

Hay, O. P. 1902 A, 440.
Dames, W. 1898 A, 140.
Ford, J. 1879 A, 636.
Hay, O. P. 1908 A, 190, text-figs. 247-253.
1912 E, 218.
Hoernes, R. 1886 A, 588.
Osborn, H. F. 1904 I, 35.
Rogers, A. F. 1924 A, 545.
Sternberg, C. H. 1881 B, 3.
1900 A, 34.
1905 A, 123, pls. xviii, xix.
1906 B, 122 ("Protostega").
1907 C, 122 ("Protostega").
1909 C, 114, fig. 21.
1917 A, 21.
Wieland, G. R. 1906 A, 279, 282, pls. xxxi, xxxii; text-figs. 1-6.
1909 A, 101, 103.
Williston, S. W. 1902 A, 276, fig. 1.
Woodward, A. S. 1922 C, 43.
Upper Cretaceous (Niobrara); Kansas.

Protostega potens Hay.

Hay, O. P. 1908 A, 198, text-figs. 246, 254, 255.
Wieland, G. R. 1909 A, 103, 122.
Upper Cretaceous (Niobrara); Kansas.

Protostega sp. indet.

Williston, S. W. 1902 E, 247.
Upper Cretaceous (Benton); Kansas.

ARCHELON Wieland. Type *A. ischyros* Wieland.

Hay, O. P. 1902 A, 440.
Abel, O. 1912 F, 615.
1919 A, 403.
1920 A, 365.
1922 C, 322.
Andrews, C. W. 1919 A, 316.
Dollo, L. 1903 C, 808.
Hay, O. P. 1905 A, 149.
1908 A, 202.
1912 E, 218.
1922 E, 425, 439.
1928 A, 4.
Jaekel, O. 1907 B, 64.
Longman, H. A. 1915 A, 28.
Lucas, F. A. 1902 B, 198.
Lydekker, R. 1910 F, 670.
Merriam, J. C. 1912 B, 221.
Nopcsa, F. 1923 F, 14.
1923 H, 37, 191 (Archelon).
Osborn, H. F. 1917 B, 203, 206, fig.
Schuchert, C. 1915 A, 907.
Versluys, J. 1914 A, 800.
1914 B, 328.
Völker, H. 1913 A, 504.
Wieland, G. R. 1902 A, 95.
1905 A, 325.
1906 A, 295.
1909 A, 101, 103.
1909 B, 252.
1912 A, 287.
1912 B, 299.
1925 B, 558.
Williston, S. W. 1902 A, 276.
1906 B, 8.
1914 A, 234.
1925 B, 225.
Zittel and Broili 1911 A, 254.
1923 A, 307.
Zittel, Eastman, etc. 1902 A, 198.

Archelon ischyros Wieland.

Hay, O. P. 1902 A, 440.
Abel, O. 1912 F, 611, fig. 467.
1919 A, 402, figs. 312, 313.
1920 A, 366, figs. 574, 575.
1921 A, 190, fig. 48.
1922 C, 324, 326, figs. 281-283.
Hay, O. P. 1908 A, 202, text-figs. 260-268.
Huene, F. 1920 D, 166.
Jaekel, O. 1911 A, 187, fig. 201 (Chelon).
1916 A, 155, fig. 39 (Orlitia bornensis).
Lucas, F. A. 1901 J, 54 ("Archelon").
Lull, R. S. 1917 B, 187 ("Archelon").
O'Harra, C. C. 1910 A, 119 ("turtle").
Sternberg, C. H. 1917 A, 26.
Versluys, J. 1914 A, 798, fig. 5.
1914 B, 333, 344, figs. 2, 6.
Völker, H. 1913 A, 532.
Wieland, G. R. 1902 A, 99, fig. 2.
1903 A, 211, fig. 1.
1906 B, 10, figs. 1, 4.
1909 A, 111, pls. ii-iv; text-figs. 6-12.
Williston, S. W. 1914 A, 234, figs. 123-127.
Woodward, A. S. 1922 C, 43.
Zdansky, O. 1924 A, 94.
Zittel and Broili 1923 A, 308, fig. 420.
Upper Cretaceous (Pierre); South Dakota.

Archelon marshii Wieland.

Hay, O. P. 1902 A, 440.
1908 A, 208.
Wieland, G. R. 1903 A, 215.
1909 A, 103, 110, fig. 6 (Protostega).
1914 A, 238.
Upper Cretaceous (Pierre); South Dakota.

CHELONIIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 64 (Chelonidæ).
Hay, O. P. 1902 A, 443.
Abel, O. 1909 F, 467 ("meeresschildkröten").
1912 F, 132 ("seeschildkröten").
1919 A, 399 (Chelonidæ).
Adams, A. 1854 A, 70 (Cheloniidæ).
Arldt, T. 1907 D, 645 (Chelonidæ).
1909 D, 653 ("cheloniden").
Ash, F. H. 1908 A, 79 ("turtles").
Blainville, H. M. D. 1835 A, 240 (Chelonea).
Bonaparte, C. L. 1832 A, 313 (Chelolina).
1833 B, 1183 (Chelonina).
Boulenger, G. A. 1918 E, 516 ("chélonées").
Carus, V. 1875 A, 400 (Cheloniinæ).
Cope, E. D. 1869 M, 139, 153.
1880 U, 147 ("chélonidées").
Dollo, L. 1886 B, 141.
1903 A, 727.
1903 C, 801 ("chéloniens").
1913 A, 50 ("chélonoidés").
Fraas, E. 1903 A, 98.
1905 B, 360 ("seeschildkröten").
Fuchs, H. 1907 B, 431 (Chelonidæ).
1909 B, 152 ("cheloniden").
1920 A (Chelonidæ).
Fuchs, H. 1920 B (Chelonidæ).
Gadow, H. 1901 B, 378 (Chelonidæ).
1905 B, 639.
Gaupp, E. 1905 D, 1021 (Chelonidæ).
Goodrich, E. S. 1916 A, 264 (Chelonidæ).
Gray, J. E. 1855 A, 70 (Chelonadæ).
1873 D, 169 ("sea-turtles").
Hay, O. P. 1905 A, 147, 148.
1905 H, 296.
1908 A, 8, 208.
1922 E, 421.
1928 A, 4.
Hoernes, R. 1886 A, 587.
Jaekel, O. 1902 B, 137 ("meerschildkröten").
1907 B, 68 ("cheloniden").
1908 A, 140 (Chelonidæ).
1910 C, 325 ("chelonier").
1911 A, 186 (Chelonii).
1916 A, 168.
1925 A, 165 ("cheloniden").
Kathariner, L. 1913 A, 373.
Kesteven, H. 1916 A, 305 (Chelonidæ).
Lane, H. H. 1910 A, 350 (Chelonidæ).
Leunis and Ludwig 1883 A, 537 (Chelonidæ).
Lobley, J. L. 1908 A, 203, 208.

Longman, H. A. 1915 A, 25 (Chelonidæ).
Lull, R. S. 1924 A, 275 (Chelonidæ).
Lydekker, R. 1912 C, 28, 107.
Nopcsa, F. 1923 E, 1048.
1923 F (Chelonidæ).
1923 H, 32, 33, 36, 37, 39, 122, 164, 166, 168, 191 (Chelonidæ, Cheloninæ).
1926 A, 654 (Chelonidæ).
1928 A, 167.
Oertel, W. 1914 A, 102.
Pictet, F. A. 1853 A, 459 ("chélonées").
Rabl, C. 1903 A, 160, 165, 167 ("cheloniden").
Rüschkamp, F. 1925 A, 127 (Chelonidæ).
Sewertzoff, A. N. 1908 A, 262 (Chelonidæ).
Siebenrock, F. 1907 A, 532 (Chelonidæ).
1909 A, 428, 544.
1919 A, 276.
Siegelbauer, F. 1909 A, 184 (Chelonidæ).
Stehli, G. 1910 A, 784 ("cheloniden").
Stejneger, L. 1907 C, 506.
Stromer, E. 1912 A, 97.
Thyng, F. W. 1906 A, 51.
Tornier, G. 1913 A, 336.
1913 B, 365.
Vaillant, L. 1877 C, 55 (Chelonina).
1881 A, 99 (Chelodina).
Versluys, J. 1914 A, 793.
1914 B, 324, seq.
Völker, H. 1913 A, 491 ("cheloniiden").
Wagner, R. 1843 A ("seeschildkröten").
Wegner, T. 1911 A, 125 ("cheloniden").
Werner, F. 1898 A, 280 (Chelonidæ).
Wieland, G. R. 1902 A, 107 (Chelonidæ); 108 (Cheloninæ).
1906 B, 13 (Cheloninæ).
Williston, S. W. 1914 A, 229.
1925 B, 225.
Woodward, A. S. 1888 O, 353.
Zittel and Broili 1911 A, 254.
1923 A, 309.
Zittel, Eastman, etc. 1902 A, 198 (Chelonidæ).

PERITRESIUS Cope. Type *Chelone ornata* Leidy.

Hay, O. P. 1902 A, 441.
Dollo, L. 1886 B, 131.
Hay, O. P. 1908 A, 209.
Williston, S. W. 1925 B, 225.

Peritresius ornatus (Leidy).

Hay, O. P. 1902 A, 441.
Dall and Harris 1892 A, 85.
Hay, O. P. 1908 A, 210.
Upper Cretaceous (Uppermost Greensand?); New Jersey: (Ripley); Georgia.

SYLLOMUS Cope. Type *S. crispatus* Cope.

Hay, O. P. 1902 A, 442.
1908 A, 209, 211.
Williston, S. W. 1925 B, 225 (Scyllomus).
Zittel and Broili 1911 A, 255 (Scyllomus).
1923 A, 310 (Scyllomus).
Zittel and Koken 1911 A, 255 (Scyllomus).

Syllomus crispatus Cope.

Hay, O. P. 1902 A, 442.
Clark and Miller 1912 A, 167, 168.
Hay, O. P. 1908 A, 211, pl. xxxii, figs. 1, 2; text-fig. 269.
Schlosser, M. 1899 N, 147.
Miocene; Virginia.

LEMBONAX Cope. Type *L. polemicus* Cope.

Hay, O. P. 1902 A, 444.
1908 A, 209, 212.
Williston, S. W. 1925 B, 225.
Zittel and Broili 1911 A, 255.

Lembonax? insularis Cope.

Hay, O. P. 1902 A, 444.
1908 A, 213, text-fig. 271.
Eocene; New Jersey.

Lembonax polemicus Cope.

Hay, O. P. 1902 A, 444.
1908 A, 212, text-fig. 270.
Eocene (Shark River); New Jersey.

Lembonax propylæus Cope.

Hay, O. P. 1902 A, 444 (L. prophylæus, *errore*).
1908 A, 214, text-fig. 272.
Eocene (Shark River); New Jersey.

PROCOLPOCHELYS Hay. Type *Chelonia grandæva* Leidy.

Hay, O. P. 1908 A, 209, 215.
Dollo, L. 1923 C, 418 (Puppigerus).
Williston, S. W. 1925 B, 225.
Zittel and Koken 1911 A, 255.

Procolpochelys grandæva (Leidy).

Hay, O. P. 1902 A, 443 (Puppigerus).
Cope, E. D. 1869 M, 153, figs. 40, 41 (Chelone); 235 (Puppigerus).
Hay, O. P. 1908 A, 216, text-figs. 273-280.
Miocene (Kirkwood); New Jersey.

CAROLINOCHELYS Hay. Type *C. wilsoni* Hay.

Hay, O. P. 1923 B, 119.

Carolinochelys wilsoni Hay.

Hay, O. P. 1923 B, 119.
Allen, G. M. 1926 A, 447.
Hay, O. P. 1923 D, 29, pls. ii, iii.
Oligocene (Ashley River); South Carolina.

CHELONIA Latreille. Type *Testudo mydas* Linnæus.

Latreille, J. N. 1802, Hist. Nat. Rept., I, 22.
Hay, O. P. 1902 A, 443 (Chelonia, Puppigerus).
Abel, O. 1907 A, 226 (Chelone).
 1908 E, 404 (Chelone).
 1912 F, 131, 528, 611, 665, fig. 73 (Chelone).
 1921 A, 189, 222.
 1922 C, 323.
Allis, E. P. 1919 A, 384 (Chelone).
 1919 D, 212.
Andrews, C. W. 1896 B, 148 (Chelone).
Bender, O. 1913 A, 285 (Chelone).
Boas, J. E. V. 1914 C, 291, fig. 82.
Boulenger, G. A. 1889 A, 180 (Chelone).
 1918 E, 515 (Chelone).
Bronn, H. G. 1848 A, 287 (Chelone).
 1849 A, 695.
Broom, R. 1911 A, 921 (Chelone).
Cleland, J. 1863 B, 309 ("turtle").
Coker, R. E. 1905 B, 23 (Chelone).
Cuvier, G. 1805 A.
Dollo, L. 1886 B, 131, 139, fig. 3.
 1889 B, 673 (Chelone).
 1901 A, 9 (Chelone).
 1903 A (Chelone).
 1903 C (Chelone).
Durand, J. P. 1898 A, 294 ("chelonée").
Edgeworth, F. H. 1907 A, 516, figs. 18-20.
Fitzinger, L. 1836 A, 120.
Fleischmann, A. 1910 A, 682, fig. 1.
Fries, C. 1924 A, 277 (Chelone).
Fuchs, H. 1907 B, 432, pl. xxi, figs. 11, 12 (Chelone).
 1909 B, 124, 143 (Chelone).
 1909 D, 40 (Chelone).
 1910 A, 54 (Chelone).
 1911 B, 398 (Chelone).
 1911 C, 624, figs. 35-51 (Chelone imbricata).
 1912 B, 81, figs. (Chelone).
 1913 A, 59 (Chelone).
 1913 B, 301 (Chelone).
 1915 A.
 1920 A, 359 (Chelone).
Gadow, H. 1901 B, 381 (Chelone).
 1902 B, 353 (Chelone).
 1905 B, 639 (Chelone).
Gaupp, E. 1894 A, 99 (Chelone).
 1906 A, 43 (Chelone).
 1910 C, 386 (Chelone).
 1911 C, 450, figs. 14, 15 (Chelone).
 1912 B, 221 (Chelone).
Gegenbauer, C. 1863 A, 464.
Goette, A. 1899 A, pls. xxvii-xxix (Chelone).
Gray, J. E. 1855 A, 74.
Gregory, W. K. 1910 A, 114.
 1920 A, 122, fig. 36 (Chelone).
Gregory and Adams 1915 A, 763 (Chelone).
Haller, G. 1926 A, 457.
Hasse, C. 1871 A, 230.
 1873 D, 684.
Hay, O. P. 1908 A, 209, 220.
Heilprin, A. 1887 A, 313, 315 (Chelone).
Hoernes, R. 1886 A, 587.
Hoffmann, C. K. 1879 B, 53.
Jaekel, O. 1903 F, 44 (Chelone).
 1912 A, 619, fig. 8.
Kesteven, H. L. 1910 A, 368 (Chelone).
Kesteven, H. L. 1916 A, 305 (Chelone).
 1919 A, 231.
Kingsley, J. S. 1925 A, 138, 146, 147, 149, 252, 285, figs. 146, 155, 156, 158, 267 (Chelone).
Klaauw, C. J. 1924 B, 592 (Chelone).
Köstlin, O. 1844 A.
Lebedinsky, N. G. 1917 A, 318 (Chelone).
Leunis and Ludwig 1883 A, 538 (Chelone).
Matthew, W. D. 1915 A, 280.
Meckel, J. F. 1825 A (Chelone).
Moodie, R. L. 1908 C, 322 (Chelone).
 1908 D, 445 (Chelone).
Nick, L. 1912 A, 169, pls.
Nopcsa, F. 1904 A, 263 (Chelone).
 1923 E, 1053, fig. 8 (Chelone).
 1923 F (Chelone).
 1923 H, 34, 37, 113, 164, 191 (Chelone).
 1925 A, 24 (Chelone).
Owen, R. 1848 B, 191 (Chelone).
 1866 A (Chelone).
 1868 A, 872 (Chelone).
Palacký, J. 1902 B, 141 (Chelone).
Parker and Bettany 1877 A, 213 (Chelone).
Pictet, F. J. 1853 A, 459.
Rabl, C. 1903 A, 167.
Rathke, H. 1846 A, 161, 163.
Reynolds, S. H. 1897 A, 194, 215, 218, 271, 283 (Chelone).
Rice, E. L. 1920 A.
Schlesinger, G. 1909 A (142) (Chelone).
Seeley, H. G. 1876 C, 181 (Chelone).
Sewertzoff, A. N. 1908 A, 272, 310.
Siebenrock, F. 1909 A, 545.
Stannius, H. 1856 A, 8, 29, 79.
Stehli, G. 1910 A, 784 (Chelone).
Stejneger, L. 1907 C, 509.
Stejneger and Barbour 1917 A, 122.
Strasser, O. z. 1919 A, 134.
Tornier, G. 1913 B, 365 (Chelone).
Ubaghs, C. 1888 A, 452, 453.
 1889 A, 383.
Vaillant, L. 1877 C, 56 (Chelone).
Veit, O. 1916 A, 368 (Chelone).
Versluys, J. 1909 A, 288 (Chelone).
 1910 A, 488 (Chelone).
 1912 B, 556 (Chelone).
 1914 A, 800.
 1914 B, 324.
 1919 A, 5, 14.
Virchow, H. 1914 A, 79.
 1919 A, 305, 309, 321, figs. 2, 9, 10.
 1921 A, 138, fig. 6 (Chelone).
 1926 A, 218, fig. 8 (Chelone).
Völker, H. 1913 A, 491.
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, II, 409 (Chelone).
Watson, D. M. S. 1919 C, 240.
Wegner, Th. 1917 A, 361-372, pls. xxviii-xxx.
Wiedersheim, R. 1892 A, 52.
Wieland, G. R. 1904 B, 192 (Chelone).
Williston, S. W. 1904 B, 177, text-fig. 3 (Chelone).
 1914 A, 16, 45, 221 (Chelone), fig. 114.
Zdansky, O. 1924 A, 93.
Zittel and Broili 1911 A, 254.
 1923 A, 309.

Zittel, Eastman, etc. 1902 A, 198 (Chelone).

Chelonia mydas Linnæus.

Linnæus, C. 1758 A, 197.
Abel, O. 1912 F, 165, figs. 73, 111 (Chelone midas).
1919 A, 380, fig. 296.
1921 A, 190, 224, fig. 78.
Allis, E. P. 1919 D, 212, 218 (C. midas).
Bluntschli, H. 1912 B, 386 (Chelone midas).
Bojanus, L. H. 1819 A, pl. xvi, fig. 3 (Testudo midas).
Boulenger, G. A. 1889 A, 180 (Chelone).
Camper, A. 1812 A, 234, pl. iii ("Midas").
Chapman, H. C. 1894 A, 42, fig. 8 ("turtle").
Coker, R. E. 1905 B, 23 (Chelone).
Dollo, L. 1888 A, 266 (Chelone).
1903 C (Chelone).
1923 C, 420 (Chelone).
Eimer, G. H. T. 1901 A, 63, 160.
Fuchs, H. 1907 B, 431, pl. xxi, fig. 11; text-fig. 5 (Chelone).
1909 B, 143, fig. 19 (Chelone).
1920 A, 383, 386, 456, figs. 1-21.
1920 B, 5, 358, fig. 24 (Chelone).
Fürbringer, M. 1900 A, 312, figs. 76-78, 81 (Chelone).
Gadow, H. 1896 A, 41, fig. 50 (Chelone midas).
1901 B, 381.
Gaupp, E. 1902 A, 177, 215 (Chelone viridis).
1908 B (Chelone).
1913 A, 96, figs. 55, 56 (Chelone viridis).
Goette, A. 1899 A, 409 (Chelone).
Gray, J. E. 1873 D, 166, pl. vi, fig. 4.
Hasse, C. 1871 A, figs. (C. midas).
Hay, O. P. 1916 C, 75.
1917 E, 44.
1923 A, 382, 383.
1923 D, 30.
Heilmann, G. 1926 A, 94 (Chelone).
Hennig, E. 1924 A, 144 (Chelone midas).
Howes and Swinnerton 1901 A, 29 ("green turtle").
Huene, F. 1926 G, 513.
Huxley, T. H. 1859 D, 399, fig. 5.
1863 F, 457, 529, figs. 41, 42, 47 (Chelone midas).
Jaekel, O. 1916 A, 144, figs. 33, 45, 48 (Chelone midas).
Kesteven, H. L. 1910 A, 368, pls. xx-xxxiii (Chelone midas).
1918 A, 455 (Chelone midas).
Kesteven, H. L. 1919 A, 233, fig. 11 (C. midas).
1922 A, 313, fig. 5 (C. midas).
Lorenz, L. 1807 A, 11 (Testudo).
Lydekker, R. 1889 N, 178 (Chelone).
Nick, L. 1912 A, 73, pls. (C. midas).
Owen, R. 1848 B, 191 (Chelone).
1866 A, 127, figs. 90, 91.
1868 A, 872.
Parker, W. K. 1879 C, 329 (Chelone midas).
1888 D, 465 (Chelone viridis).
Parker and Haswell 1897 A, 317, fig. 936.
Perna, G. 1906 A, 136, pl. vii, fig. 25.
Pfeiffer, H. 1854 A, 36, pl. 1, fig. 9 (Chelone midas).
Rabl, C. 1903 A, 156, 176, pl. i, fig. 1; pl. ii, fig. 8; text-figs. 17, 18, 20.
Rathke, H. 1846 A, 161.
Reichert, K. B. 1849 A, 454.
Reynolds, S. H. 1897 A, 214-236, figs. 37-39 (Chelone midas).
Röse, C. 1892 G, 127 (Chelone midas).
Rüschkamp, F. 1925 A, 127, pls. i, ii (Chelone).
Schauinsland, H. 1903 A, 56, pl. x.
Sellards, E. H. 1916 C, 147.
Siebenrock, F. 1909 A, 545.
Stannius, H. 1856 A, 28, seq.
Stejneger and Barbour 1917 A, 122.
Taschenberg, O. 1894 A, 3640.
Tornier, G. 1913 A, 317, figs. 1, 2 (Chelone midas).
Ubaghs, C. 1888 A, 453.
1889 A, 388.
Vaillant, T. 1877 A, 14 (Chelone).
1881 A, 47, 102 (Chelone midas).
Versluys, J. 1914 B, 335.
Virchow, H. 1919 A, 305 (C. midas).
1926 A, 218, fig. 9 (C. midas?).
Völker, H. 1913 A, 493, 532, fig. B (Chelone).
Wegner, Th. 1917 A.
Wieland, G. R. 1897 A, 446 (Chelone).
Zdansky, O. 1924 A, 92.
Zittel and Broili 1923 A, 295, 309, fig. 405.

Recent in warm seas: Pleistocene (Late); Florida.

Chelonia? parvitecta (Cope).

Hay, O. P. 1902 A, 443 (Puppigerus).
1908 A, 220, pl. xxxii, fig. 3.

Miocene (Kirkwood): Eocene (Shark River); New Jersey; Maryland?.

CARETTA Rafinesque. Type *Testudo caretta* Linnæus.

Rafinesque, C. S. 1814, Specchio Sci. (Palermo), II, No. 9, 66.
Andrews, C. W. 1901 A, 441 (Thalassochelys).
1906 A, xxiv (Thalassochelys).
Baur, G. 1890 F, 486.
Coker, R. E. 1905 B, 20 (Thalassochelys).
1910 A, 6.
Dollo, L. 1889 B, 673 (Thalassochelys).
1903 A, 795 (Thalassochelys).
1903 C (Thalassochelys).
Fitzinger, L. 1836 A, 121 (Thalassochelys).
Fuchs, H. 1920 A, 354 (Thalassochelys).
Gadow, H. 1901 B, 387.
Gray, J. E. 1855 A, 72 (Caouana).
Gray, J. E. 1873 B, 395, 404 (Caouana).
Heilprin, A. 1887 A, 313 (Thalassochelys).
Huene, F. 1926 G, 513 (Thalassochelys).
Le Conte, J. 1854 A, 186 (Chelone).
Leunis and Ludwig 1883 A, 539 (Thalassochelys).
Lydekker, R. 1889 N, 177 (Thalassochelys).
Nopcsa, F. 1928 A, 167 (Thalassochelys).
Rabl, C. 1903 A, 177 (Thalassochelys).
Sewertzoff, A. N. 1908 A, 273.
Siebenrock, F. 1909 A, 548.
Stejneger, L. 1907 C, 507.
Stromer, E. 1916 A, 405 (Thalassochelys).
Vaillant, L. 1877 C, 56 (Thalassochelys).
Versluys, J. 1914 B, 324 (Thalassochelys).

Völker, H. 1913 A, 495 (Thalassochelys).
Wegner, T. 1917 A.
Williston, S. W. 1925 A, 43, figs. 31, 144 (Thalassochelys).
Zittel and Broili 1911 A, 255, fig. 400.
1923 A, 309, fig. 421.

Caretta caretta (Linnæus).

Linnæus, C. 1758 A, 197 (Testudo).
Abel, O. 1912 F, 131, 424, 528 (Thalassochelys).
Baur, G. 1890 F, 486.
Broili, F. 1926 C, 37, fig. 10 (Thalassochelys).
Carruccio, A. 1913 C, 179 (Thalassochelis).
Coker, R. E. 1905 A, 874 (Thalassochelys).
1905 B, 9 (Thalassochelys).
1910 A, 46, pls. xi-xiv; text-fig. C (Thalassochelys).
Dollo, L. 1923 C, 419 (Thalassochelys).
Fuchs, H. 1920 A, 387 (Thalassochelys).
1920 B, 2, 35 (Thalassochelys).
Gadow, H. 1901 B, 327, 379, figs. 69, 84 (Thalassochelys).
1902 D, 216, figs. (Thalassochelys).
1905 B, 638 (Thalassochelys).
Gaupp, E. 1908 B, 529 (Chelonia).
Gray, J. E. 1855 A, 71 (Caouana).
1873 B, 404 (Caouana).
Hay, O. P. 1917 E, 43.
Hay, O. P. 1923 A, 382, 383.
1923 D, 30.
Hay, W. P. 1916 A, 258 ("loggerhead").
Hennig, E. 1924 A, 144.
Huene, F. 1926 G, 513 (Thalassochelys).
Lydekker, R. 1912 C, 107, 131, fig. 10 (Thalassochelys).
Newman, H. H. 1906 A, 81 (Thalassochelys).
Nopcsa, F. 1923 F, 20 (Thalassochelys).
Oswald, F. 1911 A, 411 (Thalassochelys).
Owen, R. 1866 A, 61, 63 (Chelone).
Rabl, C. 1903 A, 177, fig. 21 (Thalassochelys).
Reynolds, S. H. 1897 A, 216, fig. 36 (Thalassochelys).
Rüschkamp, F. 1925 A, 127, figs. 1, 2.
Schmidt, W. J. 1916 A, 10, figs. 1, 2.
Siebenrock, F. 1909 A, 549.
Siegelbauer, F. 1909 A, 184, pl. vi, figs. 1-3; pl. viii, figs. 13, 14 (Thalassochelys corticata).
Stejneger and Barbour 1917 A, 123.
Strecker, C. 1887 A (Chelonia).
Tornier, G. 1913 B, 354 (Thalassochelys).
Vaillant, L. 1881 A, 47, pls. xxviii, xxix.
Völker, H. 1913 A, 497, fig. C (Thalassochelys).
Woodward, A. S. 1922 C, 42, fig. 40 (Thalassochelys).

Recent; Atlantic Ocean: Pleistocene (Middle or Late); Florida.

Superfamily EMYDOIDÆ, new form.

Unless otherwise indicated the authors as cited, use the name Cryptodira. From the Emydoidæ are excluded the Thalassemydoidæ and the Chelonioidæ.

Hay, O. P. 1902 A, 439.
Abel, O. 1920 A, 364 (Cryptodira).
Arldt, T. 1907 D, 648.
1909 D, 653 ("cryptodiren").
Baur, G. 1891 E, 632 (Cryptodira).
Bonaparte, C. L. 1832 A, 312 (Testudinina).
1833 B, 1183 (Testudinidæ).
Case, E. C. 1898 C, 725.
Cope, E. D. 1891 N, 39 (Cryptodira).
Diener, C. 1909 A, 36.
Dollo, L. 1886 B, 130.
1889 B, 669.
1903 C.
1913 A, 50 ("cryptodères").
1913 B, 623 ("cryptodères").
Fraas, E. 1903 A, 88, 100.
1905 B, 364 ("kryptodiren").
Fuchs, H. 1907 B, 425.
1909 B, 143 ("cryptodiren").
1920 A, 370.
1920 B, 12.
Gadow, H. 1901 B, 338.
Gaupp, E. 1911 C, 449.
1913 A, 95.
Harkness, R. 1852 A, 253 (Testudiniæ).
Harrassowitz, H. 1922 A, 142, 217, 219, 220.
Hay, O. P. 1905 A, 137, 170.
1905 D, 125.
1905 G, 331.
1905 I, 297.
1905 J, 992.
1908 A, 31, 43, 126.
Hay, O. P. 1912 E, 219.
1922 E, 421, 439.
1928 A, 6.
Huene, F. 1926 G, 514 ("cryptodiren").
Jaekel, O. 1911 A, 186 (Cryptodiri).
1916 A, 207, 212 ("cryptodiren").
Kasper, A. 1903 A, 139.
Lydekker, R. 1886 G, 522.
1889 E, 518.
1912 C, 28, 127.
Nopcsa, F. 1923 F.
1923 H, 32, 33, 39, 122, 165, 167, 168, tab.
1928 A, 166.
Reynolds, S. H. 1897 A, 194.
Siebenrock, F. 1909 A, 432.
Siegelbauer, F. 1909 A, 184 (Cryptodiræ).
Stefano, G. 1917 A, 278.
Stehli, G. 1910 A, 788.
Steinmann, G. 1907 A, 436.
Stromer, E. 1912 A, 97.
Thäter, K. 1910 A, 510 ("cryptodiren").
Tornier, G. 1913 B, 365.
Versluys, J. 1914 A, 793.
1914 B, 325 ("cryptodiren").
1919 A, 15 ("cryptodiren").
Waite, E. R. 1905 A, 117.
Watson, D. M. S. 1914 H, 1013 ("cryptodeires").
Werner, F. 1898 A, 280.
Williston, S. W. 1908 G, 804.
1914 A, 16, 45, 222, 225.
1925 B, 210, 222, 224.
Woodward, A. S. 1888 O, 353.
Zdansky, O. 1924 A, 91, 110.
Zittel and Broili 1911 A, 250.
1923 A, 304.
Zittel, Eastman, etc. 1902 A, 196.

CHELYDRIDÆ.

Hay, O. P. 1902 A, 446.
Arldt, T. 1907 D, 645.
1909 D, 653 ("chelydriden").
1912 A, 714, 758.
Baur, G. 1896 D, 314, 319.
Cooper, C. F. 1922 C, 156.
Cope, E. D. 1880 U, 147 ("chélydridés").
Dollo, L. 1886 B, 130.
1889 B, 670.
1903 C.
Fuchs, H. 1907 B, 425.
Gadow, H. 1901 B, 338.
Gill, T. 1885 B, 27.
Gray, J. E. 1873 D, 164, 170 (Chelydradæ).
1873 E, 66 (Chelydradæ, Chelydraina).
Harrassowitz, H. 1922 A, 141.
Hay, O P. 1905 A, 148.
1908 A, 32, 221.
Huxley, T. H. 1887 C, 236.
Kasper, A. 1903 A, 139, 147.
Lydekker, R. 1912 C, 40, 109.
Matthew, W. D. 1915 A, 283.
Newman, H. H. 1906 A, 99.
Nopcsa, F. 1922 D, 156.
1923 E, 1053.
1923 F.
1923 H, 39, 122, 168.
1928 A, 166.
Osborn, H. F. 1909 D, 58.
Scharff, R. F. 1911 A, 134, 251 (Chelidridæ).
Siebenrock, F. 1907 A, 527, 532.
1909 A, 433.
Tornier, G. 1913 A, 336.
Williston, S. W. 1914 A, 225.
1925 B, 226.
Woodward, A. S. 1888 O, 353.
Zittel and Broili 1911 A, 251.
1923 A, 305.
Zittel, Eastman, etc. 1902 A, 200.

ACHERONTEMYS Hay. Type *A. heckmani* Hay.

Hay, O. P. 1902 A, 446.
1908 A, 221.
Nopcsa, F. 1928 A, 166.
Williston, S. W. 1925 B, 226.

Acherontemys heckmani Hay.

Hay, O. P. 1902 A, 446.
1908 A, 222, text-fig. 281.
Merrill, G. P. 1907 A, 63.
Sauvage, H. E. 1900 A, 5.
Miocene (Roslyn); State of Washington.

CHELYDRA Schweigger. Type *Testudo serpentina* Linnæus.

Schweigger, A. F. 1812, Arch. Naturwiss. Math., I, 293.
Hay, O. P. 1902 A, 446.
Adams, L. A. 1919 A, 88, pl. vi.
Altmann, F. 1925 A, 95, fig. 10.
Anderson, R. J. 1912 A, 917.
Arldt, T. 1907 D, 275, 276.
Boas, J. E. V. 1914 C, 265, 287.
Boulenger, G. A. 1902 D, 49.
1918 E, 516.
Bronn, H. G. 1848 A, 288.
1849 A, 649.
Brown, A. E. 1904 A, 467.
Carus, V. 1875 A, 397.
Dollo, L. 1889 B, 670.
1903 A, 755.
1903 C, 822.
Fitzinger, L. 1836 A, 117.
Fuchs, H. 1907 B, 425, pl. xx, fig. 4.
Gaupp, E. 1899 A, 1092.
Gegenbaur, C. 1863 A, 464.
Gregory and Adams 1915 A, 763.
Hay, O. P. 1908 A, 223.
1912 E, 218.
1928 A, 7.
Heilprin, A. 1887 A, 313-315.
Huene, F. 1902 A, 49.
1926 G, 514.
Huxley, T. H. 1887 C, 233.
Kasper, A. 1903 A, 146.
Kingsley, J. S. 1925 A, 266, fig. 288.
Klaauw, C. J. 1924 B, 592.
Le Conte, J. 1854 A, 186.
Leunis and Ludwig 1883 A, 534.
Moodie, R. L. 1907 A, 89.
1908 D, 445.
Newman, H. H. 1906 B, 526.
Nick, L. 1912 A, 169, pls.
Nopcsa, F. 1923 E, 1053.
1923 F, 2, 16.
1923 H, 34, 37.
Owen, R. 1866 A, 131, 136.
Palacký, J. 1902 B, 145.
Pictet, F. J. 1853 A, 453.
Reynolds, S. H. 1897 A, 26, 291.
Rice, E. L. 1920 A.
Scharff, R. F. 1911 A, 347.
Schlosser, M. 1898 K, 526.
Seeley, H. G. 1876 C, 173 (Chelydra); 182 (Emysaura).
Sewertzoff, A. N. 1908 A, 213.
Siebenrock, F. 1907 A, 527, 533.
1909 A, 433.
Stannius, H. 1856 A, 7, 60.
Stejneger and Barbour 1917 A, 113.
Taschenberg, O. 1894 A, 3641.
Tornier, G. 1913 A, 321, fig. 10.
1913 B, 365.
Vaillant, L. 1877 C, 57.
Versluys, J. 1914 B, 330, 339.
1919 A, 17.
Völker, H. 1913 A, 492.
Wallace, A. R. 1876 A, II, 165.
Wieland, G. R. 1902 A, 97.
1906 A, 294.
Williston, S. W. 1903 A, 32, pl. v, fig. 2.
1925 A, 188, fig. 154.
1925 B, 226.

Zdansky, O. 1924 A, 102.
Zittel and Broili 1923 A, 305.
Zittel, Eastman, etc. 1902 A, 201.

Chelydra laticarinata Hay.

Hay, O. P. 1916 C, 72, 75, pl. vi, figs. 6, 7.
1923 A, 382.
Sellards, E. H. 1916 C, 145.
Pleistocene (Early); Florida.

Chelydra sculpta Hay.

Hay, O. P. 1916 C, 73, 75, 76, pl. iv, fig. 7; pl. vi, figs. 8, 9.
1916 E, 53.
1917 E, 44, 46, pl. iii, fig. 1.
1918 B, 4.
1923 A, 382.
Sellards, E. H. 1916 C, 147.
Pleistocene (Middle or late); Florida.

Chelydra serpentina (Linnæus).

Hay, O. P. 1902 A, 446.
Beer, G. R. 1926 A, 319, figs. 88-90, 115.
Boas, J. E. V. 1914 C, 289, fig. 77.
Boulenger, G. A. 1902 D, 51.
Camp, C. L. 1923 A, 448, fig. 41.
Cope, E. D. 1869 E, 178.
Dohrer, J. 1916 A, 103, pl. vii.
Dollo, L. 1889 B, 671.
Eaton, G. F. 1910 A, 11, pl. v, fig. 10.
Fischer, E. 1903 A, 710.
Fuchs, H. 1907 B, 425, pl. xx, fig. 4.
1912 B, 87.
1920 A, 383.
1920 B, 21, 24.
1927 A, 332.
Gadow, H. 1901 B, 338.
Goodrich, E. S. 1916 A, 265, fig. 2.
Gray, J. E. 1873 D, 165.
Hay, O. P. 1905 A, 141, 149.
1906 D, 170.
1908 A, 223.
1916 C, 76.
1923 A, 482.
Huene, F. 1920 D, 166.
Kingsley, J. S. 1905 A, 63, fig. 5.
Kneeland, S. 1854 A, 84 (Emysaurus).
Kraglievich, L. 1926 C, 62.
Lang and Rütemeyer 1867 A, 28.
Le Damany, P. 1906 A, 50, fig. 8 ("émysaure").
Lehrs, Ph. 1911 A, 263.
Leidy, J. 1889 H, 6.
Mercer, H. C. 1894 A, 98 ("snapper").
Miller, B. L. 1912 A, 5 (This species?).
Moodie, R. L. 1908 D, 445.
Newman, H. H. 1906 A, 71, 99.
Nick, L. 1912 A, 73, pls.
Nikitin, B. 1916 A, 266, pls. ii-v.
Rice, E. L. 1920 A.
Scharff, R. F. 1911 A, 134.
Seeley, H. G. 1876 C, 173.
Shufeldt, R. 1921 A, 221.
Siebenrock, F. 909 A, 434.
Siegelbauer, F. 1909 A, 184, pl. viii, fig. 10; pl. x, figs. 26-28.
Stannius, H. 1856 A, 30.
Stejneger and Barbour 1917 A, 113.
Tornier, G. 1909 C, 552, fig. 2.
Vaillant, L. 1881 A, 46, 103.
Wegner, T. 1911 A, 122, 129.
Wieland, G. R. 1902 A, 103.
Williston, S. W. 1914 A, 226.
Zdansky, O. 1924 A, 93.
Recent; Eastern half United States: Pleistocene (Middle?); Maryland.

Chelydra sp. indet.

Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1927 D. 274. Pleistocene; Florida.

MACROCHELYS Gray. Type *M. temminckii* (Holbrook).

Gray, J. E. 1856, Proc. Zool. Soc. Lond. 1855, 200.
Baur, G. 1892 D, 207.
1896 D, 314, 318.
Boulenger, G. A. 1918 E, 515 (Macroclemmys).
Coker, R. E. 1910 A, 6 (Macroclemmys).
Dollo, L. 1889 B, 671 (Macroclemmys).
Durand, J. P. 1898 A, 295 ("emysaure").
Fuchs, H. 1907 B, 425, pl. xx, fig. 5 (Macroclemmys).
Gadow, H. 1901 B, 340 (Macroclemmys).
Gray, J. E. 1855 A, 48 (Macroclemmys).
Hay, O. P. 1905 A, 169.
1912 E, 218.
Huene, F. 1902 A, 51 (Macroclemmys).
1926 G, 514 (Macroclemmys).
Huxley, T. H. 1887 C, 233 (Gypochelys).
Kasper, A. 1903 A, 164, pl. i, fig. 1; text-fig. 4 (Macroclemmys).
Lönnberg, E. 1910 A, 22 (Macroclemmys).
Nopcsa, F. 1923 F, 21 (Macroclemmys).
1928 A, 166 (Macroclemmys).
Siebenrock, F. 1907 A, 527, 533 (Macroclemmys).
1909 A, 435 (Macroclemmys).
Versluys, J. 1914 A, 801 (Macroclemmys).
Völker, H. 1913 A, 520 (Macroclemmys).
Williston, S. W. 1925 A, 42, 107, 118, figs. 30, 83.
1925 B, 226.
Zittel and Broili 1911 A, 251 (Macroclemys).
1923 A, 305 (Macroclemmys).

Macrochelys floridana Hay.

Hay, O. P. 1907 B, 847, text-figs. 1-4.
Gratacap, L. P. 1908 A, 921 (M. temminicki).
Hay, O. P. 1908 A, 222, text-figs. 282-285.
Pleistocene (Early); Florida.

Macrochelys temminckii (Holbrook).

Holbrook, J. E. 1840, N. Amer. Herp., ed. i, v, 29, pl. iv (Chelonura).
Dollo, L. 1889 B, 671 (Macroclemmys).
Gadow, H. 1896 A, 42, fig. 49 (Macroclemmys).
1901 B, 340 (Macroclemmys).
1902 D, 219 (Macroclemmys).
Gray, J. E. 1855 A, 49 (Macroclemmys).
Hay, O. P. 1911 A, 452, 455, pls. xviii, xix; text-fig. 1.
Huene, F. 1920 D, 166 (Macroclemmys).
Newman, H. H. 1906 A, 70, 75.
Nopcsa, F. 1923 F, 20 (Macroclemmys).

Owen, R. 1866 A, 131, 135 (Chelonura).
Scharff, R. F. 1911 A, 135 (Macroclemmys).
Siebenrock, F. 1909 A, 436 (Macroclemys).
Vaillant, L. 1881 A, 46, 103 (Chelydra).
Virchow, H. 1919 A, 304 (Macroclemmys).
Virchow, H. 1926 A, 217, fig. 4 (Macroclemmys teminckii).
Völker, H. 1913 A, 532 (Macroclemmys).
Wiedersheim, R. 1892 A, 52 (Makrochelys).
Recent; Texas to Georgia, north to Missouri: Pleistocene (Early); Texas.

CHELYDROPS Matthew. Type *C. stricta* Matthew.

Matthew, W. D. 1924 C, 208.

Chelydrops stricta Matthew.

Matthew, W. D. 1924 C, 68, 208, fig. 63.
Upper Miocene (Lower Snake Creek); Nebraska.

TOXOCHELYIDÆ Baur.

Baur, G. 1896 B, 564.
Hay, O. P. 1902 A, 442.
Baur, G. 1895 D, 569 (Toxochelydæ).
1896 E, 569 (Toxochelydæ).
Hay, O. P. 1908 A, 163.
Oertel, W. 1914 A, 102 ("toxochelyden").
Versluys, J. 1914 A, 793.
1914 B, 324.
Völker, H. 1913 A, 491.
Wieland, G. R. 1902 A, 108 (Toxochelydinæ).
Williston, S. W. 1902 L, 918 (Toxochelydæ).
1925 B, 225.
Zittel and Broili 1911 A, 255.
1923 A, 310.
Zittel and Koken 1911 A, 255 (Toxochelydæ).

TOXOCHELYS Cope. Type *T. latiremis* Cope.

Hay, O. P. 1902 A, 442.
Abel, O. 1912 F, 529, 616.
1919 A, 401.
1921 A, 191.
1922 C, 320.
Anonymous 1906 D, 711.
Arldt, T. 1907 D, 276.
Baur, G. 1891 B, 414.
1896 E, 569.
Dollo, L. 1903 A.
1903 C.
Gaupp, E. 1911 B, 109.
1911 C, 449.
Hay, O. P. 1905 A, 154.
1908 A, 163.
1909 D, 341.
1922 E, 425, 439.
1928 A, 4, 9.
Longman, H. A. 1915 A, 28.
Nopcsa, F. 1923 E, 1051, figs. 8, 9.
1923 H, 32, 37, 191.
1928 A, 167.
Oertel, W. 1914 A, 102.
Rogers, A. F. 1924 A, 545.
Schlosser, M. 1898 K, 526.
Sternberg, C. H. 1908 A, 111.
Tornier, G. 1913 B, 365.
Völker, H. 1913 A, 493.
Wieland, G. R. 1902 A, 96.
1904 A, 125.
1905 A, 325.
1906 B, 13.
1912 B, 299.
Williston, S. W. 1901 B, 198.
1908 G, 803.
1914 A, 231.
1914 D, 411.
Zittel and Broili 1911 A, 255.
1923 A, 310.
Zittel, Eastman, etc. 1902 A, 201.

Toxochelys bauri Wieland.

Wieland, G. R. 1905 A, 326, 334, 341, pl. x; text-figs. 1-4, 6, 7.
Abel, O. 1919 A, 399, figs. 310, 311.
1922 C, 321, figs. 278-280.
Hay, O. P. 1908 A, 178, text-figs. 229, 230.
Sternberg, C. H. 1908 A, 112.
1909 C, 257, fig. 37.
Versluys, J. 1914 A, 798, fig. 4.
1914 B, 333, 340, fig. 5.
Wieland, G. R. 1909 A, 107.
1912 A, 287.
Williston, S. W. 1914 A, 231, 238, fig. 120.
Upper Cretaceous (Niobrara); Kansas.

Toxochelys brachyrhina Case.

Hay, O. P. 1902 A, 442.
1905 E, 177.
1908 A, 171, pl. xxxi, fig. 1.
Wieland, G. R. 1905 A, 337.
Upper Cretaceous (Niobrara); Kansas.

Toxochelys elkader Hay.

Hay, O. P. 1908 A, 174, text-figs. 221-223.
Upper Cretaceous (Niobrara); Kansas.

Toxochelys latiremis Cope.

Hay, O. P. 1902 A, 442.
Cope, E. D. 1875 E, 98, 260, pl. viii, figs. 1, 2.
Hay, O. P. 1905 A, 155.
1905 E, 177.
1908 A, 168, text-figs. 200, 202-206.
Leidy, J. 1873 B, 269, pl. xxxvi, figs. 17-21 (?Cynocercus incisus).
Merrill, G. P. 1907 A, 69 (Cynocercus incisus?).
Oertel, W. 1914 A, 103.
Schlosser, M. 1898 K, 525.
Sternberg, C. H. 1917 A, 159 (Torycheles).
Wieland, G. R. 1902 A, 95, fig. 1.
1905 A, 329, 336, fig. 8.

Wieland, G. R. 1906 A, 293, fig. 7.
Williston, S. W. 1901 B, 195, pl. xviii.
    1914 A, 232, fig. 121.
  Upper Cretaceous (Niobrara); Kansas.

Toxochelys procax Hay.

Hay, O. P. 1905 E, 181, text-figs. 13, 14.
    1908 A, 176, text-figs. 224-228.
Oertel, W. 1914 A, 102, 104.
Versluys, J. 1914 A, 796, fig. 3.
    1914 B, 329.
Wieland, G. R. 1905 A, 338.
  Upper Cretaceous (Niobrara); Kansas.

Toxochelys serrifer Cope.

Hay, O. P. 1902 A, 442.
    1905 E, 178, text-figs. 1-7.
    1908 A, 170, text-figs. 207-213.
Newman, H. H. 1906 A, 74, 104.
Wieland, G. R. 1905 A, 337.
Williston, S. W. 1901 B, 198.
  Upper Cretaceous (Niobrara); Kansas.

Toxochelys stenopora Hay.

Hay, O. P. 1905 E, 180, text-figs. 8-12.
    1908 A, 172, text-figs. 214-220.
    1909 B, 191, pl. i; text-fig. 1.
Wieland, G. R. 1905 A, 338 (T. stenoporus = T. serrifer).
  Upper Cretaceous (Niobrara); Kansas.

CYNOCERCUS Cope. Type *C. incisus* Cope.

Hay, O. P. 1902 A, 442.
Cope, E. D. 1872 H.
Hay, O. P. 1908 A, 180.
Wieland, G. R. 1902 A, 198.

Cynocercus incisus Cope.

Hay, O. P. 1902 A, 442.
    1905 E, 182.
    1908 A, 180.
  Upper Cretaceous (Niobrara); Kansas.

PORTHOCHELYS Williston. Type *P. laticeps* Williston.

Williston, S. W. 1901 B, 195.
Hay, O. P. 1905 A, 156.
    1908 A, 180.
    1909 D, 341.
Nopcsa, F. 1923 H, 191.
Wieland, G. R. 1901 A, 108.
Williston, S. W. 1908 G, 804.
    1925 B, 225.
Zittel, Eastman, etc. 1902 A, 201.
Zittel and Koken 1911 A, 255.

Porthochelys browni Hay.

Hay, O. P. 1905 E, 183, text-figs. 15, 16.
    1908 A, 182, text-figs. 235-237.
  Upper Cretaceous (Pierre); South Dakota.

Porthochelys laticeps Williston.

Williston, S. W. 1901 B, 195, pls. xix-xxii.
Hay, O. P. 1905 E, 183.
    1908 A, 180, pl. xxxi, figs. 2, 3; text-figs. 231-234.
  Upper Cretaceous (Niobrara); Kansas.

DERMATEMYDIDÆ.

Hay, O. P. 1902 A, 444 (Adocidæ).
Arldt, T. 1907 D, 650.
    1912 A, 678, 714.
Baur, G. 1891 E, 634.
    1896 D, 314, 319.
Boulenger, G. A. 1889 A, 27 (Dermatemys).
Cooper, C. F. 1922 C, 156.
Cope, E. D. 1880 U, 147 (Adocidæ).
Dollo, L. 1889 B, 671.
Gadow, H. 1901 B, 341.
    1902 D, 219.
    1905 A, 209.
Gilmore, C. W. 1917 A, 121.
    1920 A, 25.
Harrassowitz, H. 1922 A, 141, 142, 183.
Hay, O. P. 1905 A, 151.
    1905 G, 339.
    1906 C, 160.
    1908 A, 18, 32, 223.
Kasper, A. 1903 A, 162 ("dermatemydiden").
Lydekker, R. 1912 C, 40, 107.
Matthew, W. D. 1914 B, 387.
    1915 A, 283.
    1915 K, 437.
Matthew, W. D. 1921 D, 211, 214.
Nopcsa, F. 1922 D, 156.
    1923 F.
    1923 H, 36, 39, 122, 168 (Dermatemydinæ).
    1926 A, 657 (Dermatemyda).
    1928 A, 166 (Dermatemydidæ, Dermatemydinæ).
Osborn, H. F. 1909 D, 58.
Palacký, J. 1902 B, 145 (Dermatemys).
Scharff, R. F. 1911 A, 236, 251.
Siebenrock, F. 1907 A, 527, 533.
    1909 A, 448.
Stefano, G. 1917 A, 282, 286 (Adocidæ).
Steiner, H. 1922 A, 336 (Dermatemys).
Tornier, G. 1913 B, 365.
Vaillant, L. 1877 C, 57 (Dermatemys).
Waite, E. R. 1905 A, 117.
Walther, W. G. 1922 A, 74, 76, 90.
Wieland, G. R. 1904 A, 116 (Dermatemys).
Williston, S. W. 1925 B, 226.
Zittel and Broili 1911 A, 255.
    1923 A, 311.
Zittel, Eastman, etc. 1902 A, 201.

BASILEMYS Hay. Type *Compsemys variolosus* Cope.

Hay, O. P. 1902 A, 445.
1908 A, 226.
1910 B, 294, 298.
Nopcsa, F. 1923 F, 15, 17.
Sternberg, C. M. 1926 A, 103.
Williston, S. W. 1925 B, 226.

Basilemys imbricarius (Cope).

Hay, O. P. 1902 A, 445.
Bowen, C. F. 1915 A, 122, 150.
Hatcher, J. B. 1905 B, 77.
Hay, O. P. 1908 A, 231, pl. xxxii, figs. 5-7; text-figs. 290, 291.
Knowlton, F. H. 1911 C, 58, 62.
Osborn, H. F. 1902 H, 674.
1902 I, 12 (Compsemys); 16 (Basilemys).
Sternberg, C. H. 1914 A, 134 (Compsemys).
Upper Cretaceous (Judith River); Montana.

Basilemys nobilis Hay.

Hay, O. P. 1910 A, 316, text-figs. 12, 13.
Gilmore, C. W. 1916 D, 296, fig. 37.
1917 A, 7, 44.
1920 A, 9.
Reeside, J. B. 1924 A, 31.
Upper Cretaceous (Ojo Alamo); New Mexico.

Basilemys ogmius (Cope).

Hay, O. P. 1902 A, 445 (B. variolosus, part).
Bowen, C. F. 1915 A, 122, 151.
Dawson, G. M. 1885 A, 38 C (Compsemys).
Hatcher, J. B. 1905 B, 76 (B. imbricarius a syn.).
Hay, O. P. 1908 A, 226, 229 (=? B. variolosus).
Lambe, L. M. 1906 A, 195 (Compsemys).
A species based on extremely poor and probably unidentifiable material.
Upper Cretaceous (Belly River); Alberta.

Basilemys præclarus Hay.

Hay, O. P. 1910 A, 313, pl. x, fig. 6; text-figs. 6-11.
Upper Cretaceous (Lance); South Dakota.

Basilemys sinuosus Riggs.

Riggs, E. S. 1906 A, 249, pls. lxxvi-lxxviii.
Bowen, C. F. 1915 A, 122.
Brown, B. 1907 A, 842.
1914 E, 358.
Hay, O. P. 1908 A, 229, pl. xxxiii, figs. 1, 2; text-figs. 288, 289.
1910 A, 313.
Knowlton, F. H. 1909 A, 190.
Upper Cretaceous (Hell Creek); Montana.

Basilemys variolosus (Cope).

Hay, O. P. 1902 A, 445.
Bowen, C. F. 1915 A, 122, 148, 151.
Brown, B. 1914 E, 378.
Dawson, G. M. 1884 A, 38 (Compsemys agmius).
Hatcher, J. B. 1905 B, 76 (B. ogmius).
Hay, O. P. 1903 D, 119.
1908 A, 226, pl. xxxii, fig. 4; pl. xxxiv, fig. 1; text-fig. 287.
1910 A, 313.
1910 B, 298.
Knowlton, F. H. 1911 C, 57, 62 (B. ogmius, B. variolosa).
Lambe, L. M. 1901 A, 63, pls. iii-vi (Adocus).
1902 A, 39, pl. ii, figs. 1-3; text-figs. 4-6 (Adocus).
1904 C, 22, 37, 47.
1906 A, 194.
1907 B, 179 (Adocus).
Matthew, W. D. 1916 A, 484.
Osborn, H. F. 1901 I, 12-16 (Adocus, Basilemys).
1902 H, 674.
Upper Cretaceous (Judith); Montana: (Belly River); Alberta.

Basilemys sp. indet.

Gilmore, C. W. 1917 B, 4, 44. Upper Cretaceous (Two Medicine); Montana.
1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.
1926 A, 104. Upper Cretaceous (Edmonton); Alberta.

COMPSEMYS Leidy. Type *C. victus* Leidy.

Hay, O. P. 1902 A, 437.
Arldt, T. 1907 D, 276.
Cope, E. D. 1880 U, 148.
Fuchs, H. 1920 A, 360.
Gilmore, C. W. 1920 A, 12.
Hay, O. P. 1903 B, 203.
1905 A, 147.
1908 A, 226, 233.
1910 A, 308.
Loomis, F. B. 1901 A, 195.
Nopcsa, F. 1923 F.
1923 H, 35.
1928 A, 165.
Osborn, H. F. 1902 I, 9.
Simpson, G. G. 1926 H, 204.
Stanton and Hatcher 1905 A, 38 (Emys. This genus?).
Williston, S. W. 1925 B, 226.

Compsemys obscurus (Leidy).

Hay, O. P. 1902 A, 437.
Bowen, C. F. 1915 A, 124.
Brown, B. 1907 A, 842.
1914 E, 358.
Hay, O. P. 1908 A, 235, pl. xxxiv, fig. 4.
1910 B, 297.
Knowlton, F. H. 1911 C, 60, 63.
Leidy, J. 1860 A, 153, pl. xi, fig. 4 (Emys?).
Osborn, H. F. 1902 I, 12, 17.
Peale, A. C. 1912 A, 754.
Sternberg, C. H. 1914 A, 134.
Upper Cretaceous (Lance); North Dakota: (Hell Creek); Montana.

Compsemys parvus Hay.

Hay, O. P. 1910 A, 308, pl. x, figs. 1-3; text-fig. 1 (C. parva).
Gilmore, C. W. 1920 A, 9, 10, 13, pl. i, figs. 1, 2; pl. xix, fig. 3; text-fig. 1.
Nopcsa, F. 1923 F, 15.
Reeside, J. B. 1924 A, 38, 42 (This species?).
Paleocene (Puerco, Torrejon?); New Mexico.

Compsemys plicatulus Cope.

Hay, O. P. 1902 A, 437.
Baur, G. 1891 E, 634.
Hay, O. P. 1903 B, 203.
1905 A, 137, 153, text-fig. 4.
1905 D, 125.
1905 G, 331.
1905 I, 297.
Marsh, O. C. 1890 E, 177, pl. vii, figs. 1, 2 (Glyptops ornatus).
Mook, C. C. 1916 A, 149.
Williston, S. W. 1905 B, 346.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado, Wyoming.

Compsemys puercensis Gilmore.

Gilmore, C. W. 1920 A, 9, 10, 19, pl. iii, figs. 1, 2; text-figs. 3, 4.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Compsemys torrejonensis Gilmore.

Gilmore, C. W. 1920 A, 10, 21, pl. iv, figs. 1, 2; text-figs. 4-6.
Nopcsa, F. 1923 F, 15.
Reeside, J. B. 1924 A, 42.
Paleocene (Torrejon); New Mexico.

Compsemys vafer Hay.

Hay, O. P. 1910 A, 311, pl. x, figs. 4, 5; pl. xi, figs. 1, 2; text-figs. 2-5.
Gilmore, C. W. 1916 D, 299.
1920 A, 9, 10, 16, pl. ii, figs. 1, 2; text-fig. 2.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Compsemys victus Leidy.

Hay, O. P. 1902 A, 437.
Bowen, C. F. 1915 A, 124.
Brown, B. 1907 A, 842.
1914 E, 358.
Cope, E. D. 1874 B, 433, 454.
Cross, W. 1896 A, 227.
Gilmore, C. W. 1920 A, 12 (C. victa).
Hatcher, J. B. 1905 B, 79.
Hay, O. P. 1903 D, 119.
1908 A, 233, pl. xxxiv, figs. 2, 3; text-figs. 292-295.
1910 A, 308.
1910 B, 298.
Knowlton, F. H. 1911 C, 60, 63.
Lambe, L. M. 1904 C, 37, 47 (This genus?).
Merrill, G. P. 1907 A, 66.
Osborn, H. F. 1902 I, 12, 17.
Peale, A. C. 1912 A, 754.
Sternberg, C. H. 1914 A, 134.
Upper Cretaceous (Lance); North Dakota, Wyoming; (Hell Creek); Montana: (Denver or Arapahoe?); Colorado.

Compsemys sp. indet.

Hay, O. P. 1902 A, 437. Paleocene (Puerco); New Mexico.
Gilmore, C. W. 1916 D, 299, pl. lxxviii, fig. 2. Upper Cretaceous (Ojo Alamo); New Mexico.
1926 J, 28. Upper Cretaceous (Lance); Wyoming.
Reeside, J. B. 1924 A, 31. Upper Cretaceous (Ojo Alamo); New Mexico.

ADOCUS Cope. Type *Emys beatus* Leidy.

Hay, O. P. 1902 A, 444.
Anonymous 1905 B, 205.
Gilmore, C. W. 1920 A, 25.
Hay, O. P. 1905 C, 339.
1906 C, 159.
1908 A, 226, 236.
1910 A, 319.
1910 B, 294.
Heilprin, A. 1887 A, 315.
Nopcsa, F. 1923 F, 13.
Wieland, G. R. 1904 A, 112, 114.
1904 B, 192.
Williston, S. W. 1925 B, 226.

Adocus agilis Cope.

Hay, O. P. 1902 A, 444.
Gilmore, C. W. 1920 A, 26.
Hay, O. P. 1908 A, 236, 242, 246, pl. xxxvi, fig. 3.
Upper Cretaceous (Hornerstown?); New Jersey.

Adocus beatus (Leidy).

Hay, O. P. 1902 A, 444.
Gilmore, C. W. 1920 A, 26.
Hay, O. P. 1908 A, 236, 239, pl. xxxiv, figs. 6, 7; text-figs. 299-301.
Maack, G. A. 1869 A, 278 (Emys).
Wieland, G. R. 1904 A, 115, fig. 2.
Upper Cretaceous?; New Jersey.

Adocus bossi Gilmore.

Gilmore, C. W. 1920 A, 8, 10, 26, 29, pls. vii, viii; text-figs. 9, 10.
Reeside, J. B. 1924 A, 23.
Upper Cretaceous (Kirtland); New Mexico.

Adocus hesperius Gilmore.

Gilmore, C. W. 1920 A, 9, 26, 33, pl. ix; text-fig. 11.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Adocus kirtlandius Gilmore.

Gilmore, C. W. 1920 A, 8, 10, 26, pls. v, vi; text-figs. 7, 8.
Reeside, J. B. 1924 A, 23.
Upper Cretaceous (Kirtland); New Mexico.

Adocus lacer Hay.

Hay, O. P. 1908 A, 236, 241, pl. xxxiv, fig. 8; pl. xxxvi, fig. 1; text-figs. 302-307.
Gilmore, C. W. 1920 A, 26.
Upper Cretaceous? (Hornerstown?); New Jersey.

Adocus lineolatus (Cope).

Hay, O. P. 1902 A, 437 (Compsemys).
Bowen, C. F. 1915 A, 122, 148.
Brown, B. 1907 A, 842.
1914 E, 358 (Adocus?).
Cross, W. 1896 A, 244 ("Compsemys").
Gilmore, C. W. 1916 D, 297 (Adocus?).
1920 A, 26.
Hatcher, J. B. 1905 B, 75.
Hay, O. P. 1903 D, 117 (Compsemys); 119 (Adocus).
1908 A, 236, 242, 247, figs. 308, 309 (Adocus?).
1910 B, 298 (Adocus?).
Knowlton, F. H. 1911 C, 57, 62.
Lambe, L. M. 1902 A, 38 (Adocus?).
1904 C, 22, 37, 47 (Adocus?).
1906 A, 194 (Adocus?).
Osborn, H. F. 1902 I, 12, 16 (Adocus?).
Peale, A. C. 1912 A, 754 (Adocus?).
Upper Cretaceous (Denver or Arapahoe?); Colorado: (Belly River); Alberta: (Judith River, Hell Creek); Montana: (Lance); Wyoming.

Adocus onerosus Gilmore.

Gilmore, C. W. 1920 A, 10, 26, 35, pl. x, figs. 1, 2; text-figs. 12, 13.
Reeside, J. B. 1924 A, 42.
Paleocene (Torrejon); New Mexico.

Adocus pravus (Leidy).

Hay, O. P. 1902 A, 444.
Gilmore, C. W. 1920 A, 26.
Hay, O. P. 1908 A, 236, 242, 246.
Upper Cretaceous (Tinton?); New Jersey.

Adocus punctatus Marsh.

Marsh, O. C. 1890 E, 178, pl. vii, fig. 3.
Hay, O. P. 1902 A, 444 (Syn. of A. beatus).
Baur, G. 1891 B, 428 (A. beatus, part).
Gilmore, C. W. 1920 A, 26.
Hay, O. P. 1908 A, 236, pl. xxxiv, fig. 5; pl. xxxv, figs. 1, 2; text-figs. 296-298.
Nopcsa, F. 1926 A, 658, text-fig. 9.
Wieland, G. R. 1904 A, 112, pls. i-iv; text-figs. 1, 2.
Upper Cretaceous? (Hornerstown?); New Jersey.

Adocus syntheticus Cope.

Hay, O. P. 1902 A, 444.
Gilmore, C. W. 1920 A, 26.
Hay, O. P. 1908 A, 236, 242, 244, pl. xxxvi, fig. 2.
Upper Cretaceous (Hornerstown?); New Jersey.

Adocus vigoratus Hay.

Hay, O. P. 1910 A, 317, pl. xi, fig. 3; text-figs. 14-18.
Gilmore, C. W. 1916 D, 298, pl. lxxvii, fig. 2; pl. lxxviii, fig. 3; text-fig. 38.
1920 A, 9, 25, 26.
Reeside, J. B. 1924 A, 31.
Upper Cretaceous (Ojo Alamo); New Mexico.

Adocus sp. indet.

Gilmore, C. W. 1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
Reeside, J. B. 1924 A, 21. Upper Cretaceous (Fruitland); New Mexico.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.

AGOMPHUS Cope. Type *Emys turgidus* Cope.

Hay, O. P. 1902 A, 444.
Anonymous 1905 B, 205.
Cooper, C. F. 1922 C, 156.
Hay, O. P. 1906 C, 159.
1908 A, 226, 248.
Nopcsa, F. 1922 D, 156.
Wieland, G. R. 1905 B, 430, 442.
1923 A, 7.
Williston, S. W. 1925 B, 226.

Agomphus alabamensis Gilmore.

Gilmore, C. W. 1919 C, 123-125, pl. xxxv; text-fig. 5.
Lower Eocene (Midway); Alabama.

Agomphus firmus (Leidy).

Hay, O. P. 1902 A, 445.
1908 A, 249, 254.
Wieland, G. R. 1905 B, 435.
Upper Cretaceous (Tinton); New Jersey.

Agomphus masculinus Wieland.

Wieland, G. R. 1905 B, 437, 438, fig. 8.
Hay, O. P. 1908 A, 249, 255, fig. 319.
Upper Cretaceous? (Navesink-Hornerstown?); New Jersey.

Agomphus oxysternum Cope.

Hay, O. P. 1902 A, 445.
1908 A, 249, 256, fig. 320.
Wieland, G. R. 1905 B, 435 (Adocus); 430 (Amphiemys).
Lower Eocene (Midway); Georgia.

Agomphus pectoralis (Cope).

Hay, O. P. 1902 A, 444 (Adocus).
Cope, E. D. 1870 N, 548 (Adocus).
Hay, O. P. 1908 A, 249, 254, pl. xxxvii, figs. 8, 9.
Wieland, G. R. 1905 B, 435 (Adocus).
Upper Cretaceous (Vincentown?); New Jersey.

Agomphus petrosus Cope.

Hay, O. P. 1902 A, 445.
1908 A, 249, 250, pl. xxxvi, fig. 4; pl. xxxvii, figs. 6, 7; text-figs. 311-313.
Wieland, G. R. 1905 B, 430.
Upper Cretaceous? (Upper Greensand); New Jersey.

Agomphus tardus Wieland.

Wieland, G. R. 1905 B, 430, figs. 1-7.
Hay, O. P. 1908 A, 249, 252, figs. 314-318.
Upper Cretaceous? (Navesink-Hornerstown); New Jersey.

Agomphus turgidus Cope.

Hay, O. P. 1902 A, 445.
1908 A, 249, pl. xxxvii, figs. 1-5; text-fig. 310.
Wieland, G. R. 1905 B, 430, 435, 442, fig. 9 (This species?).
Upper Cretaceous? (Upper Greensand); New Jersey.

ZYGORAMMA Cope. Type *Z. striatula* Cope.

Hay, O. P. 1902 A, 445.
1908 A, 226, 257.
Williston, S. W. 1925 B, 226.

Zygoramma microglypha Cope.

Hay, O. P. 1902 A, 445.
1908 A, 259, text-fig. 322.
Upper Cretaceous? (Navesink-Hornerstown); New Jersey.

Zygoramma striatula Cope.

Hay, O. P. 1902 A, 445.
1908 A, 257, pl. xxxvii, fig. 10; pl. xxxviii, figs. 1-3; text-fig. 321.
Upper Cretaceous? (Navesink-Hornerstown); New Jersey.

HOMOROPHUS Cope. Type *H. insuetus* Cope.

Hay, O. P. 1902 A, 446.
1908 A, 226, 260.
Williston, S. W. 1925 B, 226.

Homorophus insuetus Cope.

Hay, O. P. 1902 A, 446.
1908 A, 260.
Upper Cretaceous? (Hornerstown?); New Jersey.

ALAMOSEMYS Hay. Type *A. substricta* Hay.

Hay, O. P. 1908 A, 226, 260.
1910 A, 319.
1910 B, 294.
Williston, S. W. 1925 B, 226.

Alamosemys annexa Hay.

Hay, O. P. 1910 A, 318, fig. 19.
Gilmore, C. W. 1920 A, 10, 26, 37, pl. xi, figs. 1, 2; pl. xii; text-figs. 14, 15 (Adocus).
Reeside, J. B. 1924 A, 42 (Adocus).
Paleocene (Torrejon); New Mexico.

Alamosemys substricta Hay.

Hay, O. P. 1908 A, 260, pl. xxxix, figs. 1, 2; text-figs. 323, 324.
Gilmore, C. W. 1920 A, 10 (Adocus).
Matthew, W. D. 1914 B, 383 (A. substriata).
Reeside, J. B. 1924 A, 42 (Adocus).
Paleocene (Torrejon); New Mexico.

HOPLOCHELYS Hay. Type *Chelydra crassa* Cope.

Hay, O. P. 1908 A, 226, 263.
Cooper, C. F. 1922 C, 156.
Gilmore, C. W. 1920 A, 40.
Hay, O. P. 1910 A, 321.
1910 B, 294.
Nopcsa, F. 1922 D, 156.
1923 F, 13, 15.
Williston, S. W. 1925 B, 226.

Hoplochelys bicarinata Hay.

Hay, O. P. 1910 A, 321, pl. xii, figs. 1, 2; text-figs. 20-23.
Gilmore, C. W. 1920 A, 9, 41, pl. xiv, figs. 1, 2; text-figs. 17, 18.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Hoplochelys cælata Hay.

Hay, O. P. 1908 D, 163, pl. xxvii, figs. 1-3.
1910 A, 324.
Paleocene (Torrejon); New Mexico.

Hoplochelys crassa (Cope).

Hay, O. P. 1902 A, 446 (Chelydra).
Gardner, J. H. 1910 A, 731 (Chelydra).
Gilmore, C. W. 1920 A, 9, 10, 40, 41, pl. xiii; text-fig. 16.
Hay, O. P. 1905 G, 339, 340.
1908 A, 263, pl. xxxviii, figs. 4-9; text-fig. 325.
1908 D, 164.
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Hoplochelys elongata Gilmore.

Gilmore, C. W. 1920 A, 10, 41, 50, pl. xvi, figs. 1, 2; text-figs. 21, 22.
Reeside, J. B. 1924 A, 42.
Paleocene (Torrejon); New Mexico.

Hoplochelys laqueata Gilmore.

Gilmore, C. W. 1920 A, 9, 10, 41, 47, pl. xv, figs. 1, 2; text-figs. 19, 20.

Nopcsa, F. 1923 F, 14.
1926 A, 658, text-fig. 9.
Reeside, J. B. 1924 A, 38 (H. laqueta).
Paleocene (Puerco); New Mexico.

Hoplochelys paludosa Hay.

Hay, O. P. 1908 A, 266, text-fig. 328.
Gilmore, C. W. 1920 A, 10.
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 42.
Paleocene (Torrejon); New Mexico.

Hoplochelys saliens Hay.

Hay, O. P. 1908 A, 265, text-figs. 326, 327.
Gilmore, C. W. 1920 A, 10, 41, 49.
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 42.
Paleocene (Torrejon); New Mexico.

Kallistira Hay. Type *Dermatemys costilatus* Cope.

Hay, O. P. 1908 A, 226, 267.
Williston, S. W. 1925 B, 226.
Zittel and Broili 1911 A, 256 (Kallistina).

Kallistira costilata (Cope).

Hay, O. P. 1902 A, 445 (Baptemys).
1908 A, 267, text-figs. 329-334.
Merrill, G. P. 1907 A, 69 (Dermatemys).
Lower Eocene (Wasatch); New Mexico.

Notomorpha Cope. Type *N. gravis* Cope.

Hay, O. P. 1902 A, 448.
1908 A, 226, 269.
Williston, S. W. 1925 B, 226.

Notomorpha gravis Cope.

Hay, O. P. 1902 A, 448.
Cope, E. D. 1874 B, 441.
Hay, O. P. 1908 A, 269, text-figs. 335, 336.
Merrill, G. P. 1907 A, 71 (Emys); 74 (Notomorpha).
Lower Eocene (Wasatch); Wyoming.

Baptemys Leidy. Type *B. wyomingensis* Leidy.

Hay, O. P. 1902 A, 445.
Cope, E. D. 1871 C, 563.
Hay, O. P. 1908 A, 226, 270.
Nopcsa, F. 1923 F, 8, 14, 15.
Williston, S. W. 1925 B, 226.

Baptemys fluviatilis Hay.

Hay, O. P. 1908 A, 277, pl. xlii, figs. 1, 2; text-figs. 350, 351.
Middle Eocene? (Bridger?); Colorado?.

Baptemys tricarinata Hay.

Hay, O. P. 1908 A, 275, text-figs. 346-349.
Cooper, C. F. 1922 C, 156.
Cope, E. D. 1881 D, 184 ("Dermatemys").
Nopcsa, F. 1922 D, 156.
Middle Eocene (Wind River); Wyoming.

Baptemys wyomingensis Leidy.

Hay, O. P. 1902 A, 445 (B. wyom.); 438 (Baëna? ponderosa).
1904 A, 265, pl. xiii, figs. 1-3; text-fig. 2.
1905 G, 331 (Baëna? ponderosa).
1908 A, 270, pl. xxxvii, figs. 11-13; pl. xxxviii, fig. 10; pl. xl, fig. 1; pl. xli, figs. 1, 2; text-figs. 337-345.
Hayden, F. V. 1871 A, 145.
Lambe, L. M. 1906 B, 233 (Baëna ponderosa).
Merrill, G. P. 1907 A, 64 (Baëna ponderosa).
Middle Eocene (Bridger); Wyoming.

Baptemys sp. indet.

Lee, W. T. 1917 A, 141.
Upper Cretaceous (Vermejo); Colorado.

Xenochelys Hay. Type *X. formosa* Hay.

Hay, O. P. 1906 B, 29.
1908 A, 226, 282.
Williston, S. W. 1925 B, 226.
Zittel and Broili 1911 A, 256.

Xenochelys formosa Hay.

Hay, O. P. 1906 B, 29, text-figs. 2, 3.
1904 A, 282, text-figs. 355, 356.
O'Harra, C. C. 1920 A, 160.
Oligocene (Chadron); South Dakota.

ANOSTEIRIDÆ Hay.

Hay, O. P. 1902 A, 446.
Baur, G. 1891 B, 420 (Anosteirinæ).
Harrassowitz, H. 1922 A, 209, 210, 212.
Hay, O. P. 1905 G, 332.
Nopcsa, F. 1923 H, 122 (Anosteirinæ).
1928 A, 167 (Anosteirinæ).

Anosteira Leidy. Type *A. ornata* Leidy.

Hay, O. P. 1902 A, 447.
Arldt, T. 1907 D, 276 (Anostira).
Dollo, L. 1887 B, 393 (Anostira).
Harrassowitz, H. 1919 A, 148.
1922 A, 132-239.
1922 B, 93.
Hay, O. P. 1905 G, 332.
1908 A, 226, 279.
Leidy, J. 1872 B, 370.
Lemoine, V. 1889 A, 237 (Anostira).
Lydekker, R. 1886 G, 523.
1889 M, 54 (Anostira).
Nopcsa, F. 1923 H, 33, 34, 36, 150.
1928 A, 167.
Versluys, J. 1922 C, 98.
Walther, W. G. 1922 A, 76, 81, 85, 90.

Williston, S. W. 1925 B, 226.
Zittel and Broili 1911 A, 256.
1923 A, 312.
Zittel, Eastman, etc. 1902 A, 201 (Anostira).

Anosteira ornata Leidy.

Hay, O. P. 1902 A, 447.
Gilmore, C. W. 1917 A, 121 (This species?).
Harrassowitz, H. 1922 A, 140, 152, 202, pl. i, figs. 3, 4.
Hay, O. P. 1905 G, 332.
1906 C, 157, text-figs. 2, 3.
1908 A, 279, pl. xliii, figs. 1, 2; text-figs. 352-354.
Lambe, L. M. 1908 A, 9, 17, pl. i, figs. 17-19.
Middle Eocene (Bridger); Wyoming: (Uinta?); Utah.

Anosteira radulina Cope.

Cope, E. D. 1872 UU, 1.
Hay, O. P. 1902 A, 447.
Harrassowitz, H. 1922 A, 141.
Hay, O. P. 1905 G, 332.
1908 A, 281.
Merrill, G. P. 1907 A, 63.
Middle Eocene (Bridger); Wyoming.

KINOSTERNIDÆ.

Agassiz, L. 1857 B, 418 (Cinosternoidæ).
Arldt, T. 1909 D, 654 ("kinosterniden").
Baur, G. 1891 E, 632 (Cinosternidæ).
1896 D, 314.
Boulenger, G. A. 1889 A, 33 (Cinosternidæ).
Brown, A. E. 1904 A, 468 (Cinosternidæ).
Cooper, C. F. 1922 C, 155 (Cinosternidæ).
Cope, E. D. 1882 E, 144 (Cinosternidæ).
Gilmore, C. W. 1923 A, 1.
Harrassowitz, H. 1922 A, 141 (Cinosternidæ).
Kingsley, J. S. 1925 A, 15 (Cinosternidæ).
Nopcsa, F. 1922 D, 155 (Cinosternidæ).
1923 E, 1045 (Cinosternidæ).
1923 F, 13, 18 (Cinosternidæ).
1923 H, 36, 39, 122, 168 (Cinosterninæ).
1926 A, 657 (Cinosternidæ).
1928 A, 166 (Cinosterninæ).
Siebenrock, F. 1902 A, 807-846 (Cinosternidæ).
1907 A (Cinosternidæ).
1909 A, 436, 438 (Cinosternidæ).
Woodward, A. S. 1888 O, 353 (Cinosternidæ).
Zittel and Broili 1923 A, 311 (Cinosternidæ).

KINOSTERNON Spix. Type *K. longicaudatum* = *K. scorpoides* = *Testudo tricarinata* Merrem.

Spix, J. B. 1824, Testud. Brazil, 17.
Agassiz, L. 1857 B, 423 (Goniochelys); 424 (Ozotheca); 426 (Cinosternum); 427 (Thyrosternum); 429 (Platythyra).
Gilmore, C. W. 1923 A, 1.
Gray, J. E. 1844, Cat. Tort., 32.
1855 A.
1873 D, 164, pl. v, fig. 6.
1873 E, 70.
Harassowitz, H. 1922 A, 200 (Cinosternum).
Le Conte, J. 1854 A, 180 (Kinosternum).
Nopcsa, F. 1923 F, 6 (Cinosternum).
1923 H, 34, 186, 187 (Cinosternum).
1926 A, 657 (Cinosternum).
Siebenrock, F. 1907 A (Cinosternum).
1909 A, 439 (Cinosternum).
Stannius, H. 1856 A, 7, 32 (Cinosternum).
Stejneger, L. 1902 A, 237.
1923 A, 3.
Zdansky, O. 1924 A, 102 (Cinosternon).

Kinosternon arizonense Gilmore.

Gilmore, C. W. 1923 A, 2, pls. i-v; text-figs. 1-7.
Hay, O. P. 1927 D, 136.
Nopcsa, F. 1926 A, 658, text-fig. 9 (Cinosternum).
Pleistocene (San Pedro Valley); Arizona.

EMYDIDÆ Gray.

Hay, O. P. 1902 A, 447.
Allis, E. P. 1919 A, 383 (Emys).
Arldt, T. 1907 D, 652.
1909 D, 654 ("emydiden").
1912 A, 712, 758.
Bender, O. 1911 A, 170 (Emys).
1913 A, 284 (Emys).
Blainville, H. M. D. 1835 A, 240 (Emyda).
Botez, I. G. 1921 A, 84 (Testudinidæ, in part).
Broom, R. 1924 B, 54, fig. 5 (Emys).
Brown, A. E. 1904 A, 467 (Emys).
Carus, V. 1875 A, 397.
Cuvier, G. 1825 A, v, 2, 227 ("émydes").
Dollo, L. 1889 B, 672 (Testudinidæ).
1903 A, 770 (Testudinidæ).
Filatoff, D. 1906 A, 628 (Emys).
1907 A, 289 (Emys).
Fraas, E. 1905 B, 364 (Emydæ).
Fuchs, H. 1907 C, 19 (Emys).
1907 D, 33 (Emys).
Fuchs, H. 1909 B, 152 ("emyden").
1909 D, 38, fig. 13 (Emys).
1913 A, 59 (Emys).
1913 B, 301 (Emys).
Gadow, H. 1901 B, 350 (Emys).
Gaupp, E. 1910 C, 412 (Emys).
1911 B, 109 (Emys).
Gegenbaur, C. 1863 A, 464 (Emys).
Gray, J. E. 1825 A, 210.
1855 A, 14.
1873 D, 165, 169.
Harkness, R. 1852 A, 250 ("emydian family").
Hasse, C. 1871 A, figs. (Emys).
Hay, O. P. 1905 A, 151.
1905 G, 332, 339.
1908 A, 2, 33, 284.
1928 A, 6.
Heilprin, A. 1887 A, 314, 315 (Emydæ).
Hoffmann, C. K. 1879 B, 63 (Emydæ).
Kehrer, F. A. 1896 A, 353 ("emyden").

Kingsley, J. S. 1925 A, 145.
Köstlin, O. 1844 A (Emys).
Kunkel, B. W. 1911 A, 356, figs. 1-3 (Emys).
1912 A, 693 (Emys).
Matthew, W. D. 1914 B, 387.
1915 A, 283.
1921 D, 214.
Meckel, J. F. 1825 A (Emys).
Mehnert, E. 1891 A, 131 (Emys).
Nopcsa, F. 1923 F (Emydidæ, Emydinæ).
1923 H, 31, 32, 34-36 ("emydiden"); 39 (Emychidæ).
1928 A, 167 (Emydinæ).
Owen, R. 1848 B, 201, pl. ii (Emys).
Paramore, R. H. 1910 A, 1397, figs. 7, 8 (Emys).
Pictet, F. J. 1853 A, 446.
Rabl, C. 1903 A, 185 ("emyden").
Rathke, H. 1846 A, 161, 163 (Emys).
Scharff, R. F. 1911 A, 134.
Seweitzoff, A. N. 1908 A, 149, 262, 309 (Emydæ).
Siebenrock, F. 1907 A, 536.
1909 A, 451 (Emydinæ).
Sieglbauer, F. 1911 A, 265 (Emys).
Smith, L. W. 1914 A, 549 (Emydæ).
Stannius, H. 1856 A (Emydea).
Stefano, G. 1917 A, 281, 286.
Stehli, G. 1910 A, 785 ("emyden").
Steiner, H. 1922 A, 335, fig. 12 (Emys).
Stejneger, L. 1907 C, 488 (Emydinæ).
Stejneger and Barbour 1917 A, 113 (Testudinidæ in part).
Tornier, G. 1913 B, 365.
Vaillant, L. 1877 A, 15 (Emys).
1877 C, 56 (Emys).
Versluys, J. 1919 A, 14.
Virchow, H. 1914 D, 321, fig. 2 (Emys).
1926 A, 216, fig. 3 (Emys).
Watson, D. M. S. 1916 A, 341 (Emys).
Williston, S. W. 1914 A, 226.
1925 B, 226.
Zittel and Broili 1911 A, 251.
1923 A, 306 (Emydinæ).
Zittel, Eastman, etc. 1902 A, 202.
Zuckerkandl, E. 1908 A, 497 (Emys).

GYREMYS Hay. Type *G. spectabilis* Hay.

Hay, O. P. 1908 A, 288.
Williston, S. W. 1925 B, 226.

Gyremys spectabilis Hay.

Hay, O. P. 1908 A, 288, pl. xliv, figs. 1, 2; text-figs. 357, 358.
Bowen, C. F. 1915 A, 126.
Upper Cretaceous (Judith River); Montana.

CLEMMYS Ritgen. Type *Testudo punctata Schoepff* = *T. guttata* Schneider.

Hay, O. P. 1902 A, 449.
Ammon, L. 1911 A, 27, figs.
Botez, I. G. 1921 A, 85.
Bronn, H. G. 1849 A, 694.
Carus, V. 1875 A, 397.
Fitzinger, L. 1836 A, 114.
Gadow, H. 1901 B, 356.
Gaupp, E. 1905 D, 1018, fig. 39.
1911 B, 109.
1913 A, 53.
Goette, A. 1899 A, 418, 419.
Hay, O. P. 1908 A, 287, 290.
1928 A, 8, pl. ii, fig. 2.
Klaauw, C. J. 1924 B, 592.
Osborn, H. F. 1909 D, 58.
Scharff, R. F. 1911 A, 132, 222.
Sewertzoff, A. N. 1908 A, 272.
Siebenrock, F. 1909 A, 479.
Stejneger, L. 1907 A, 492.
Williston, S. W. 1925 B, 226, 227.

Clemmys hesperia Hay.

Hay, O. P. 1903 E, 238, text-figs. 1-5.
1908 A, 292, pl. xlv, figs. 4-7; text-figs. 361-365.
Merriam, J. C. 1911 B, 230.
Osborn, H. F. 1909 D, 81.
Pliocene (Rattlesnake); Oregon.

Clemmys insculpta Le Conte.

Hay, O. P. 1902 A, 449.
Baker, F. C. 1920 A, 208, 213, 394.
Hay, O. P. 1908 A, 295.
1923 A, 312, 322.
Peterson, O. A. 1926 A, 253.
Scharff, R. F. 1911 A, 133.
Pleistocene (Early); Pennsylvania.

Clemmys morrisiæ Hay.

Hay, O. P. 1908 A, 290, pl. xlv, figs. 1-3; text-figs. 359-360.
Scharff, R. F. 1911 A, 133.
Middle Eocene (Bridger); Wyoming.

Clemmys? percrassa Cope.

Hay, O. P. 1902 A, 449.
Baker, F. C. 1920 A, 208, 213, 394.
Hay, O. P. 1908 A, 294.
1923 A, 312.
Schlosser, M. 1902 H, 143.
Pleistocene (Early); Pennsylvania.

Clemmys saxea Hay.

Hay, O. P. 1903 E, 241, text-fig. 6.
1908 A, 294, pl. xlv, figs. 8-10; text-fig. 366.
Merriam and Sinclair 1907 A, 196.
Middle Miocene (Mascall); Oregon.

Clemmys sp. indet.

Merriam, J. C. 1911 B, 205, 214, 233, fig. 2.
Middle Miocene (Virgin Valley); Nevada.

ECHMATEMYS Hay. Type *Emys septaria* Cope.

Hay, O. P. 1906 B, 27.
Gilmore, C. W. 1915 H, 123.
Hay, O. P. 1908 A, 287, 295, text-figs. 367-374 (E. sp. indet.).
Huene, F. 1910 C, 302 (Echmatemus).
Nopcsa, F. 1923 F, 15.
Sauvage, H. E. 1906 A, 150, 252 (Echinatemys).
Williston, S. W. 1925 B, 226.

Echmatemys ægle Hay.

Hay, O. P. 1908 A, 298, 431, text-figs. 436-441.
Middle Eocene (Bridger); Wyoming.

Echmatemys arethusa Hay.

Hay, O. P. 1908 A, 298, 323, pl. xlix, figs. 1, 2; text-figs. 421, 422.
Middle Eocene (Bridger); Wyoming.

Echmatemys callopyge Hay.

Hay, O. P. 1908 A, 298, 340, pl. lii, figs. 1, 2; text-figs. 447, 448.
Gilmore, C. W. 1915 H, 123, pl. xxi; text-figs. 9, 10.
Upper Eocene (Uinta); Utah.

Echmatemys cibollensis (Cope).

Hay, O. P. 1902 A, 447 (Emys).
Gilmore, C. W. 1915 H, 139.
1919 C, 129.
Hay, O. P. 1908 A, 298, 300, text-fig. 379.
Merrill, G. P. 1907 A, 70 (Emys).
Lower Eocene (Wasatch); New Mexico.

Echmatemys cyane Hay.

Hay, O. P. 1908 A, 298, 324, text-figs. 423-427.
Middle Eocene (Bridger); Wyoming.

Echmatemys depressa Gilmore.

Gilmore, C. W. 1915 H, 139, pl. xxiii, fig. 2; text-fig. 16.
Upper Eocene (Uinta); Utah.

Echmatemys douglassi Gilmore.

Gilmore, C. W. 1915 H, 128, pl. xxii; text-figs. 11, 12.
Upper Eocene (Uinta); Utah.

Echmatemys euthneta (Cope).

Hay, O. P. 1902 A, 447 (Emys).
Cope, E. D. 1874 B, 436, 437 (Emys).
Gilmore, C. W. 1915 H, 139.
1919 C, 129.
Hay, O. P. 1908 A, 298, 305, pl. xlvi, fig. 1; text-figs. 389-391.
Loomis, F. B. 1907 B, 358 (Emys).
Merrill, G. P. 1907 A, 70 (Emys).
Lower Eocene (Wasatch); Wyoming.

Echmatemys haydeni (Leidy).

Hay, O. P. 1902 A, 448 (Emys).
1908 A, 298, 313, pl. xlvii, fig. 2; text-figs. 404-410.
Merrill, G. P. 1907 A, 71.
Middle Eocene (Bridger); Wyoming.

Echmatemys hollandi Gilmore.

Gilmore, C. W. 1915 H, 133, pl. xxiii, fig. 1; text-fig. 13.
Upper Eocene (Uinta); Utah.

Echmatemys? latilabiata (Cope).

Cope, E. D. 1872 PP, 3 (Emys).
Hay, O. P. 1902 A, 448 (Emys).
1908 A, 298, 339
Merrill, G. P. 1907 A, 71 (Emys).
Middle Eocene (Bridger); Wyoming.

Echmatemys lativertebralis (Cope).

Hay, O. P. 1902 A, 448 (Emys)
1908 A, 298, text-figs. 375-378
Merrill, G. P. 1907 A, 71 (Emys).
Lower Eocene (Wasatch); New Mexico.

Echmatemys? megaulax (Cope).

Hay, O. P. 1902 A, 448 (Emys).
Cope, E. D. 1874 B, 436 (Emys megaulax, E. pachylomus).
Gilmore, C. W. 1915 H, 139, 141.
1919 C, 125-129, pl. xxxvi; text-figs. 6, 7.
Hay, O. P. 1908 A, 298, 301, pl. xlv, figs. 14, 15; text-figs. 380-383.
Merrill, G. P. 1907 A, 71 (Emys).
Lower Eocene (Wasatch); Wyoming.

Echmatemys naomi Hay.

Hay, O. P. 1908 A, 298, 335, pl. li, figs. 1, 2; text-figs. 442-444.
Middle Eocene (Bridger); Wyoming.

Echmatemys obscura Gilmore.

Gilmore, C. W. 1915 H, 135, pl. xxiv; text-figs. 14, 15.
Upper Eocene (Uinta); Utah.

Echmatemys ocyrrhoë Hay.

Hay, O. P. 1908 A, 298, 329, text-figs. 432, 435.
Middle Eocene (Bridger); Wyoming.

Echmatemys pusilla Hay.

Hay, O. P. 1908 A, 298, 337, text-figs. 445, 446.
Gilmore, C. W. 1915 H, 142, fig. 17. (This species?).
Leidy, J. 1873 B, 148 (Emys wyomingensis, juv.). juv.).
Middle Eocene (Bridger); Wyoming: (Uinta); Utah.

Echmatemys rivalis Hay.

Hay, O. P. 1908 D, 164, text-figs. 2, 3.
Lower Eocene (Wasatch?); Wyoming.

Echmatemys septaria (Cope).

Hay, O. P. 1902 A, 448 (Emys).
Gilmore, C. W. 1915 H, 123, 124.
Hay, O. P. 1906 B, 28, text-fig. 1.
1908 A, 298, 319, text-figs. 414-420.
Leidy, J. 1870 E, 5 (Emys stevensonianus, in part).
Merrill, G. P. 1907 A, 71 (Emys).
Middle Eocene (Bridger); Wyoming.

Echmatemys shaughnessiana (Cope).

Hay, O. P. 1902 A, 448 (Emys).
1908 A, 298, 327, pl. l, figs. 1, 2; text-figs. 428-431.
Middle Eocene (Bridger); Wyoming.

Echmatemys stevensoniana (Leidy).

Hay, O. P. 1902 A, 448 (Emys septaria, in part).
Hayden, F. V. 1871 A, 145 (Emys stevensonensis).
Merrill, G. P. 1907 A, 72 (Emys).
Hay, O. P. 1908 A, 298, 316, pl. xlviii, figs. 1, 2; text-figs. 411-413.
Middle Eocene (Bridger); Wyoming.

Echmatemys testudinea (Cope).

Hay, O. P. 1902 A, 448 (Emys).
Cope, E. D. 1874 B, 441 (Emys).
Gilmore, C. W. 1919 C, 129.
Hay, O. P. 1908 A, 298, 303, pl. xlv, figs. 16, 17; text-figs. 383-388.
Merrill, G. P. 1907 A, 72 (Emys); 74 (Notomorpha).
Lower Eocene (Wasatch); Wyoming.

Echmatemys uintensis Hay.

Hay, O. P. 1908 A, 298, 342, pl. liii, figs. 1, 2.
Gilmore, C. W. 1915 H, 127.
Upper Eocene (Uinta); Wyoming.

Echmatemys wyomingensis (Leidy).

Hay, O. P. 1902 A, 448 (Emys).
1904 A, 267, pl. xiv; text-figs. 3, 4 (Chrysemys).
1908 A, 298, 308, pl. xlvii, fig. 1; text-figs. 392-403.
Merrill, G. P. 1907 A, 71 (Emys jeanesi); 72 (E. wyomingensis).
Middle Eocene (Bridger); Wyoming.

PALÆOTHECA Cope. Type *P. polycypha* Cope.

Cope, E. D. 1872 NN, 4.
Hay, O. P. 1902 A, 447 (Emys, in part).
1908 A, 287, 343.
Nopcsa, F. 1928 A, 167 (Palæotheka).
Williston, S. W. 1925 B, 226.

Palæotheca polycypha Cope.

Cope, E. D. 1872 NN, 4.
Hay, O. P. 1902 A, 448 (Emys).
Gilmore, C. W. 1915 H, 139.
Hay, O. P. 1908 A, 343.
Merrill, G. P. 1907 A, 71 (Emys); 75 (Palæotheca).
Middle Eocene (Bridger); Wyoming.

Palæotheca terrestris Cope.

Cope, E. D. 1872 NN, 5.
Hay, O. P. 1902 A, 448 (Emys).
Cope, E. D. 1902 A, 448.
Gilmore, C. W. 1915 H, 139.
Hay, O. P. 1908 A, 344.
Merrill, G. P. 1907 A, 72 (Emys); 75 (Palæotheca).
Middle Eocene (Bridger); Wyoming.

HYBEMYS Leidy. Type *H. arenarius* Leidy.

Hay, O. P. 1902 A, 448.
1908 A, 287, 344.

Hybemys arenarius Leidy.

Hay, O. P. 1902 A, 448.
1908 A, 345.
Middle Eocene (Bridger); Wyoming.

CHRYSEMYS Gray. Type *Testudo picta* Schneider.

Gray, J. E. 1844, Cat. Tortoises, etc. Brit. Mus., 27.
Agassiz, L. 1857 B, 438.
Baur, G. 1896 E, 569.
Beer, G. R. 1926 A, 319.
Botez, I. G. 1921 A, 85.
Brown, A. E. 1904 A, 468.
Fuchs, H. 1907 B, 429.
Gadow, H. 1901 B, 346.
Gray, J. E. 1855 A, 32.
1873 F, 321, pl. xii, fig. 7.
Hay, O. P. 1905 A, 143.
1908 A, 288, 345.
Heilprin, A. 1887 A, 314.
Huene, F. 1920 D, 166.
Nopcsa, F. 1923 F, 12.
Scharff, R. F. 1911 A, 132.
Thäter, K. 1910 A, 490, figs. 24-35.
Sewertzoff, A. N. 1908 A, 272.
Shaner, R. F. 1926 A, 343, figs. 1-16.
Siebenrock, F. 1909 A, 459.
Smith, L. W. 1914 A, 549.
Stejneger and Barbour 1917 A, 118.
Williston, S. W. 1925 A, 103, 188, figs. 80, 154.
1925 B, 226, 227.

Chrysemys marginata bellii (Gray).

Gray, J. E. 1831, Syn. Rept., 31 (Emys bellii).
Boulenger, G. A. 1889 A, 74 (C. cinerea bellii).
Hay, O. P. 1923 B, 118, pl. ix, fig. 1 (C. belli).
Stejneger and Barbour 1917 A, 118.
See Boulenger for synonymy and literature.
Recent; Upper Michigan to Vancouver Island, on Great Plains to New Mexico and Mexico: Pleistocene; Texas.

Chrysemys timida Hay.

Hay, O. P. 1908 A, 345, pl. xlvi, fig. 2.
Pleistocene (Aftonian); Nebraska.

DEIROCHELYS Agassiz. Type *D. reticulata* (Daudin).

Agassiz, L. 1857 B, 441.
Hay, O. P. 1908 A, 288, 346.
Siebenrock, F. 1909 A, 485.
Stejneger and Barbour 1917 A, 121.
Williston, S. W. 1925 B, 227.

Deirochelys floridana Hay.

Hay, O. P. 1908 A, 346, pl. liv, figs. 1, 2; text-fig. 450.
1923 A, 379.
Pleistocene (Early); Florida.

TRACHEMYS Agassiz. Type *T. scripta* Schoepff.

Hay, O. P. 1902 A, 449.
Baur, G. 1892 D, 208, fig. 3.
1896 E, 569.
Gray, J. E. 1873 F, 321, pl. xii, fig. 8.
Hay, O. P. 1908 A, 288, 347.
Matthew, W. D. 1918 I, 662 (Graphemys).
1919 B, 170 (Chrysemys, Trachemys).
Sewertzoff, A. N. 1908 A, 262.
Williston, S. W. 1914 A, 221, figs. 115, 116.
1925 B, 227.

Trachemys bisornata (Cope).

Hay, O. P. 1902 A, 449.
1908 A, 353, pl. lvi, fig. 1.
1916 C, 67, 75, pl. vii, figs. 2-7.
1923 A, 384.
1924 D, 248.
Sellards, E. H. 1916 C, 145.
Pleistocene (Early); Texas, Florida.

Trachemys delicata Hay.

Hay, O. P. 1916 C, 66, pl. vii, fig. 1 (This genus?).
Pliocene?; Florida.

Trachemys euglypha (Leidy).

Hay, O. P. 1902 A, 447 (Emys).
1908 A, 350, pl. liv, fig. 3.
1916 C, 70, pl. iv, fig. 6 (This species?).
1923 A, 379, 381.
Matson and Clapp 1909 A, 136 (Emys).
Spencer, J. W. 1895 A, 137 (Emys).
Pleistocene (Peace Creek); Florida.

Trachemys hilli (Cope).

Hay, O. P. 1902 A, 449.
1908 A, 348, pl. lv, figs. 1, 2; text-figs. 451, 452.
Upper Miocene or Lower Pliocene (Republican River); Kansas.

Trachemys? jarmani Hay.

Hay, O. P. 1908 A, 351, pl. liv, figs. 10-12.
1923 A, 379.
Pleistocene (Early); Florida.

Trachemys? nuchocarinata Hay.

Hay, O. P. 1916 C, 70, pl. vi, fig. 5 (This genus?).
1917 E, 44, 47 (This genus?).
1923 A, 374, 382.
1927 D, 274.
Pleistocene (Early and Middle); Florida.

Trachemys petrolei (Leidy).

Hay, O. P. 1902 A, 448 (Emys).
1908 A, 352, pl. xlvi, figs. 3, 4.
1924 D, 242.
Pleistocene (Early); Texas.

Trachemys sculpta Hay.

Hay, O. P. 1908 A, 351, pl. liv, figs. 4-9.
1916 C, 68, 75, pl. vii, figs. 8-10.
1923 A, 497.
1927 D, 274.
Sellards, E. H. 1916 C, 145.
Pleistocene (Early); Florida.

Trachemys trulla Hay.

Hay, O. P. 1908 A, 355, pl. lvi, figs. 2-6; text-fig. 453.
1924 D, 242.
Pleistocene (Early); Texas.

Trachemys sp. indet.

Hay, O. P. 1923 A, 197. Pleistocene (Early); Florida.

PSEUDEMYS Gray. Type *Testudo concinna* Le Conte.

Gray, J. E. 1856, Proc. Zool. Soc. Lond., 1855 (1856), 197.
Baur, G. 1896 E, 569.
Boulenger, G. R. 1889 A, 69 (Chrysemys, part).
Foote, J. S. 1916 A, 58, pl. iv.
Gray, J. E. 1855 A, 34.
1873 F, 321, pl. xii, fig. 9.
Hay, O. P. 1908 A, 288, 356.
Heilprin, A. 1887 A, 314.
Stejneger and Barbour 1917 A, 119.
Williston, S. W. 1925 B, 227.

Pseudemys cælata Hay.

Hay, O. P. 1908 A, 356, pl. lvii, figs. 1-6; text-fig. 454.
1916 C, 64, pl. ii, figs. 1-7.
1923 A, 375, 379.
1927 D, 274.
Pleistocene (Early); Florida.

Pseudemys extincta Hay.

Hay, O. P. 1908 A, 356, pl. liv, fig. 13.
1923 A, 379.
Pleistocene (Early); Florida.

Pseudemys floridana persimilis Hay.

Hay, O. P. 1916 C, 71, 75, pl. v, figs. 6-8.
1917 E, 44.
1923 A, 382.
Sellards, E. H. 1916 C, 147, 148.
Pleistocene (Middle or Late); Florida.

Pseudemys sp. indet.

Hay, O. P. 1923 A, 363. Pleistocene; South Carolina.

GRAPTEMYS Agassiz. Type *Testudo geographica* Le Sueur.

Agassiz, L. 1857 B, 436.
Hay, O. P. 1908 A, 288, 358.
Stejneger and Barbour 1917 A, 117.
Williston, S. W. 1914 A, 218, figs. 111, 112.

Graptemys? inornata (Loomis).

Loomis, F. B. 1904 A, 429, figs. 10, 11 (Chrysemys).
Hay, O. P. 1908 A, 358, text-figs. 455, 456.
Lambe, L. M. 1905 D, 366 A (Chrysemys).
O'Harra, C. C. 1920 A, 160.
Oligocene (Titanotherium); South Dakota.

TERRAPENE Merrem. Type *Testudo carolina* Linnæus.

Hay, O. P. 1902 A, 449.
Adams, L. A. 1919 A, 89 (Cistudo).
Botez, I. G. 1921 A, 85 (Cistudo).
Boulenger, G. A. 1895 D, 330 (Cistudo).
Broom, R. 1922 A, 21.
Brown, A. E. 1904 A, 468.
Carus, V. 1875 A, 397.
Cooper, C. F. 1922 C, 157.
Durand, J. P. 1898 A, 294 ("cistude").
Fuchs, H. 1907 B, 461, pl. xx, fig. 10 (Cistudo).
1911 B, 394 (Cistudo).
1920 A, 368 (Cistudo).
Gadow, H. 1901 B, 361 (Cistudo).
1905 A, 210 (Cistudo).
Gilmore, C. W. 1927 E.
Gray, J. E. 1825 A, 211 (Terraphene).
1855 A, 39 (Cistudo).
1873 D, 163 ("box tortoises").
Hay, O. P. 1905 A, 149.
1908 A, 18, 288, 359.
1912 D, 553.
Heilprin, A. 1887 A, 313-315 (Cistudo).
Le Conte, J. 1854 A, 189.
Leunis and Ludwig 1883 A, 533.
Moodie, R. L. 1908 D, 445 (Cistudo).
Nopcsa, F. 1922 D, 157.
1923 F, 6, 18 (Terrapene, Cistudo).
1923 H, 36 (Terrapane).
Owen, R. 1848 B, 192 (Cistudo).
Perna, G. 1906 A, 136, pl. vii, fig. 26 (Cistudo).
Rabl, C. 1903 A, 170, pl. i, fig. 9 (Cistudo).
Rathke, H. 1846 A, 163 (Terapene).
Scharff, R. F. 1911 A, 134.
Shufeldt, R. 1921 A, 220.
Siebenrock, F. 1909 A, 489.
Stannius, H. 1856 A, 32, seq. (Cistudo).
Stejneger, L. 1902 A, 235, 236.
Stejneger and Barbour 1917 A, 115.
Vaillant, L. 1877 B, 36 (Cistudo).
1877 C, 57.
1881 A, 15, 103.
Wallace, A. R. 1876 A, ii, 408.
Watson, D. M. S. 1914 H, 1012 (Cistudo).
Williston, S. W. 1925 A, 188, fig. 154 (Cistudo).
1925 B, 227 (Terrepene).
Zdansky, O. 1924 A, 110.
Zittel, Eastman, etc. 1902 A, 203 (Cistudo).

Terrapene bulverda Hay.

Hay, O. P. 1920 B, 133, pl. x, fig. 1; text-fig. 4.
1924 D, 247.
Pleistocene (Middle or Early); Texas.

Terrapene canaliculata Hay.

Hay, O. P. 1907 B, 850, figs. 5-7.
Gidley, J. W. 1927 E, 274.
Gilmore, C. W. 1927 E, 4, pls. ii-v; text-figs. 2-4.
Hay, O. P. 1908 A, 360, 363, text-figs. 463-465.
1916 C, 58, 75, pl. iv, figs. 4, 5; pl. v, figs. 1-5 (T. antipex); 61 (T. caniculata).
1917 B, 10 (T. antipex).
1917 E, 44 (T. antipex).
1923 A, 371 (T. canaliculata); 497 (T. antipex).
1927 D, 274 (T. antipex, T. canaliculata).
Sellards, E. H. 1916 C, 147 (T. antipex).
Pleistocene (Early); Georgia, Florida.

Terrapene carolina (Linnæus).

Linnæus, C. 1758 A, 198 (Testudo).
Hay, O. P. 1902 A, 449 (T. clausa).
Baker, F. C. 1920 A, 311, 341, 394.
Boulenger, G. A. 1895 D, 331 (Cistudo).
Fuchs, H. 1927 A, 324.
Gadow, H. 1901 B, 361 (Cistudo).
Gray, J. E. 1855 A, 39 (Cistudo).
Hay, O. P. 1902 C, 386.
1912 D, 553, text-fig. 1.
1923 A, 310, 311.
Leidy, J. 1889 H, 6 (Cistudo clausa).
Mercer, H. 1884 A, 98 ("box turtle").
Owen, R. 1848 B, 192 (Cistudo clausa).
Siebenrock, F. 1909 A, 492.
Stejneger and Barbour 1917 A, 115.
Vaillant, L. 1881 A, 15, pl. xxvi (T. carinata).
Zdansky, O. 1924 A, 111.
Recent; Maine to Georgia, west to Mississippi River: Pleistocene (Early); Pennsylvania: (Middle); Indiana: (Late); Pennsylvania.

Terrapene eurypygia (Cope).

Hay, O. P. 1902 A, 449 (T. eurypygia, T. anguillulata).

Baker, F. C. 1920 A, 208, 213, 394 (T. anguillulatus).
Cope, E. D. 1869 E, 178.
Hay, O. P. 1902 C, 385, figs. 6, 7.
    1906 D, 169, pl. xl, fig. 2.
    1908 A, 360, 364, text-figs. 466-470.
    1916 C, 64.
    1923 A, 312, 347.
Miller, B. L. 1912 A, 5 (Cistudo).
Vaillant, L. 1881 A, 15.
    Pleistocene (Early or Middle); Maryland: (Early); Pennsylvania.

Terrapene formosa Hay.

Hay, O. P. 1916 C, 57, pl. iv, fig. 3.
Gilmore, C. W. 1927 E, 3.
Hay, O. P. 1923 A, 378.
    Pleistocene (Early); Florida.

Terrapene impressa Hay.

Hay, O. P. 1924 D, 245, fig. 5.
    Pleistocene (Early); Texas.

Terrapene innoxia Hay.

Hay, O. P. 1916 C, 61, 75, 76, pl. vi, figs. 1-4.
Chamberlin, R. T. 1916 A, 38.
Gilmore, C. W. 1927 E, 3.
Hay, O. P. 1916 E, 53.
    1917 E, 44.
    1923 A, 382.
Sellards, E. H. 1916 C, 145, 147.
    Pleistocene (Early and Middle); Florida.

Terrapene longinsulæ Hay.

Hay, O. P. 1908 D, 166, pl. xxvi, figs. 1-3.
    Lower Pliocene (Republican River); Kansas.

Terrapene marnochii (Cope).

Hay, O. P. 1902 A, 449.
Dumble, E. T. 1894 A, 564 (Cistudo).
Hay, O. P. 1908 A, 360, 362, pl. lviii, figs. 1, 2.
    1917 B, 9.
    Pleistocene (Early); Texas.

Terrapene putnami Hay.

Hay, O. P. 1906 B, 30, text-figs. 4-7.
Gilmore, C. W. 1927 E, 3.
Hay, O. P. 1908 A, 360, pl. lvi, figs. 7, 8; text-figs. 459-462.
    1916 C, 61.
    1923 A, 197, 379.
Sauvage, H. E. 1906 A, 150 (T. putmanni).
Scharff, R. F. 1911 A, 134.
    Pleistocene (Early); Florida.

Terrapene singletoni Gilmore.

Gilmore, C. W. 1927 E, 1, pl. i; text-fig. 1.
    Pleistocene (Early); Florida.

Terrapene whitneyi Hay.

Hay, O. P. 1917 B, pl. i, figs. 4, 5; pl. ii, fig. 1.
Bassler, R. S. 1919 A, 61.
Deussen, A. 1924 A, 116.
Hay, O. P. 1920 B, 133.
    1923 B, 117.
    1924 D, 245, 247.
    1927 D, 284.
    Pleistocene (Early or Middle); Texas.

Terrapene sp. indet.

Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1923 A, 353.
    1927 D, 274. Pleistocene; Florida.
Matthew, W. D. 1925 A, 97. Pleistocene (Early); Florida.

TESTUDINIDÆ Gray.

Gray, J. E. 1825 A, 210.
Hay, O. P. 1902 A, 449.
Arldt, T. 1909 D, 654 ("testudiniden").
    1912 A, 712, 758.
Bates, D. M. A. 1914 A, 100 ("land tortoises").
Blainville, H. M. D. 1835 A, 240 (Testudinea).
Bonaparte, C. L. 1831 A, 63.
Botez, I. G. 1921 A, 84.
Carus, V. 1875 A, 396 (Chersemydæ).
Dollo, L. 1889 B.
    1903 A, 770 (Testudinidæ, including Emydidæ).
    1903 C.
Frech, F. 1906 A, 494 ("landschildkröten").
Fuchs, H. 1907 B, 428.
    1920 A, 367.
Gadow, H. 1901 B, 345.
Gray, J. E. 1855 A, 4.
Günther, A. C. 1898 A ("land tortoises").
Harrassowitz, H. 1922 A, 183 ("testudinatiden").
Hay, O. P. 1905 G, 333.
    1908 A, 33, 367.
Hoffmann, C. K. 1879 B, 65 (Testudinei).
Jaekel, O. 1915 A, 104 ("testudiniden").
Koken, E. 1898 A, 141 ("schildkröten").
Lobley, J. L. 1908 A, 203, 208.
Lydekker, R. 1886 G, 521 ("chelonians").
    1903 C, 54 ("land tortoises").
    1910 A, 302 ("giant tortoises").
    1912 C, 498 (Chelonia).
Mantell, G. A. 1844 A, 771 (Testudinata).
Matthew, W. D. 1914 B, 387.
    1915 A, 283.
    1921 D, 214.
Middleton, J. 1844 A, 286.
Nopcsa, F. 1923 F (Testudininæ, Emydidæ).
    1923 H, 34, 39, 122, 166 (Testudininæ).
    1928 A, 167 (Emydinæ, Testudininæ).
Osborn, H. F. 1909 D, 58.
Rabl, C. 1903 A, 160 ("testudiniden").
Siebenrock, F. 1907 A, 532.
    1909 A, 508 (Testudinæ).
Stannius, H. 1856 A (Testudinea).
Stefano, G. 1917 A, 281, 286.
Stejneger, L. 1907 C, 488.
Stejneger and Barbour 1917 A, 113 (including Emydidæ).
Tornier, G. 1913 A, 336.
    1913 B, 365.
Versluys, J. 1912 A, 491 ("schildkröten").

Wagner, R. 1843 A ("landschildkröten").
Wallace, A. R. 1876 A, II, 407.
Williston, S. W. 1914 A, 227.
1925 B, 227.
Zittel and Broili 1911 A, 252 (Testudininæ).
1923 A, 306 (Testudininæ).
Zittel, Eastman, etc. 1902 A, 202 (Testudinidæ); 203 (Testudinoidea).

HADRIANUS Cope. Type *H. octonarius* Cope.

Cope, E. D. 1872 OO, 3.
Hay, O. P. 1902 A, 450.
Gilmore, C. W. 1917 A, 143.
Harrassowitz, H. 1922 A, 183.
Hay, O. P. 1905 G, 341.
1908 A, 373.
Nopcsa, F. 1923 F, 13, 18.
Tornier, G. 1913 B, 365.
Wieland, G. R. 1923 A, 13.
Williston, S. W. 1925 B, 227.
Zittel and Broili 1911 A, 252.
1923 A, 306.
Zittel, Eastman, etc. 1902 A, 203.

Hadrianus corsoni (Leidy).

Hay, O. P. 1902 A, 450 (H. corsoni, H. octonarius).
Cope, E. D. 1872 M, 463 (Testudo hadriana).
1872 NN, 4 (Testudo hadriana).
1872 OO, 3 (H. octonaria, H. quadratus).
1872 PP, 3 (H. octonarius, H. quadratus).
Gilmore, C. W. 1915 H, 143, fig. 18; 145 (H. corsoni, H. octonarius).
Hay, O. P. 1904 A, 272.
1905 G, 333.
1908 A, 374, 376, pls. lx, lxi; text-figs. 473-479.
Leidy, J. 1873 B, 132, 339, pl. xi, figs. 1, 2; pl. xv, fig. 7; pl. xxix, figs. 2-4; pl. xxx, figs. 1-4 (Testudo; on pl. xi, Emys carteri).
Merrill, G. P. 1907 A, 72 (H. corsoni, H. octonarius).
Middle Eocene (Bridger); Wyoming: Upper (Uinta); Utah.

Hadrianus majusculus Hay.

Hay, O. P. 1904 A, 271, pl. xv; text-fig. 5.
Gilmore, C. W. 1915 H, 150.
Hay, O. P. 1905 G, 340.
1908 A, 374, pl. lix, fig. 1; text-fig. 472.
Lower Eocene (Wasatch); New Mexico.

Hadrianus robustus Gilmore.

Gilmore, C. W. 1915 H, 146, pl. xxv, fig. 2; text-fig. 19.
Upper Eocene (Uinta); Utah.

Hadrianus schucherti Hay.

Hay, O. P. 1902 A, 450.
1908 A, 374, 382, text-fig. 481.
Merrill, G. P. 1907 A, 73.
Sauvage, H. E. 1900 A, 5.
Eocene (Jackson); Alabama.

Hadrianus tumidus Hay.

Hay, O. P. 1908 A, 374, 380, text-fig. 480.
Gilmore, C. W. 1915 H, 148.
Upper Eocene (Uinta); Utah.

Hadrianus utahensis Gilmore.

Gilmore, C. W. 1915 H, 148, pl. xxvi, fig. 1; text-fig. 20.
Upper Eocene (Uinta); Utah.

Hadrianus sp. indet.

Merrill, G. P. 1907 A, 73. Lower Eocene (Wasatch); New Mexico.

ACHILEMYS Hay. Type *Hadrianus allabiatus* Cope.

Hay, O. P. 1908 A, 373, 383.
Williston, S. W. 1925 B, 227.
Zittel and Broili 1911 A, 252.
1923 A, 306.

Achilemys allabiata (Cope).

Cope, E. D. 1872 PP, 3 (Hadrianus).
Hay, O. P. 1902 A, 450 (Hadrianus).
1905 G, 333.
1908 A, 383, figs. 482, 485.
Merrill, G. P. 1907 A, 72 (Hadrianus).
Middle Eocene (Bridger); Wyoming.

BYSTRA Hay. Type *B. nanus* Hay.

Hay, O. P. 1916 C, 53.
Nopcsa, F. 1928 A, 167 (Bystira).

Bystra nanus Hay.

Hay, O. P. 1916 C, 53, pl. i.
Miocene, Pliocene or Lower Pleistocene (Dunnellon); Florida.

STYLEMYS Leidy. Type *S. nebrascensis* Leidy.

Hay, O. P. 1902 A, 450.
Dall and Harris 1892 A, 289.
Gilmore, C. W. 1915 H, 155.
Hay, O. P. 1908 A, 373, 385.
1912 E, 213.
Matthew, W. D. 1915 A, 280.
Oertel, W. 1924 A, 44.
Osborn, H. F. 1909 D, 58, 66.
Sinclair, W. J. 1903 B, 246.
Williston, S. W. 1925 B, 227.
Zittel and Broili 1911 A, 252.
1923 A, 306.
Zittel, Eastman, etc. 1902 A, 203.

Stylemys calaverensis Sinclair.

Sinclair, W. J. 1903 B, 244, figs. 1, 2.
Hay, O. P. 1908 A, 386, 396, text-figs. 502, 503.
Lindgren, W. 1911 A, 52.
Miocene? (Auriferous gravels); California.

Stylemys capax Hay.

Hay, O. P. 1908 A, 386, 392, pl. lxiii, figs. 1, 2; text-figs. 498, 499.
Upper Miocene (John Day); Oregon.

Stylemys conspecta Hay.

Hay, O. P. 1908 A, 386, 393, pl. lxiv, figs. 1, 2; text-figs. 500, 501.
Upper Oligocene (John Day); Oregon.

Stylemys nebrascensis Leidy.

Hay, O. P. 1902 A, 450.
Case, E. C. 1919 A, 435, figs. 1-5.
1920 C, 119.
1925 A, 87, figs. 1-7.
Darton, N. H. 1901 A, 543.
1905 A, 45.
Fraas, E. 1901 A, 211 ("Testudo").
Greene, G. K. 1881 A, 60 (Testudo oweni).
Hatcher, J. B. 1902 D, 127 ("land tortoises").
Hay, O. P. 1905 G, 342.
1906 A, 19, text-figs. 9-11.
1908 A, 386, pl. lix, figs. 2-4; pl. lxii, figs. 1, 2; text-figs. 486-497.
Hayden, F. V. 1871 A, 105 ("turtles").
Lambe, L. M. 1904 C, 27, 38, 47 (This turtle?).
Lambe, L. M. 1905 D, 366 A.
1908 A, 9, 18.
1913 B, 57, pls. vi, vii.
1914 H, 402.
Merrill, G. P. 1907 A, 78 (Testudo neb.); 71 (Emys hemispherica, T. neb.).
O'Harra, C. C. 1910 A, 119, pl. L, fig. 2; text-fig. 19.
1920 A, 140, 160, fig. 73.
Reinach, A. 1900 A, 18, 127 (Testudo neb., T. culbertsoni).
Sinclair, W. J. 1903 B, 247.
1923 A, 101, 133.
Sternberg, C. H. 1913 A, 46.
Van Straelen, V. 1928 A, 300.
Wanless, H. R. 1923 A, 219.
Wieland, G. R. 1923 A, 10.
Zittel and Broili 1911 A, 252, fig. 398.
1923 A, 307, fig. 419.
Oligocene (White River); South Dakota, Nebraska, Colorado, Wyoming.

Stylemys oregonensis Leidy.

Hay, O. P. 1902 A, 451.
McClung, C. E. 1906 A, 69 ("turtles").
Merriam and Sinclair 1907 A, 187.
Sinclair, W. J. 1903 B, 247.
Sternberg, C. H. 1881 A, 542 ("turtles").
Upper Oligocene (John Day); Oregon.

Stylemys sp. indet.

Merriam and Sinclair 1907 A, 188, 190, 192.
Oligocene (John Day); Oregon.

GOPHERUS Rafinesque. Type *Testudo polyphemus* Daudin.

Rafinesque, C. S. 1832, Atlantic Jour., I, 64.
Case, E. C. 1919 A, 435.
Foote, J. S. 1916 A, 59.
Stejneger and Barbour 1917 A, 121.

Gopherus atascosæ Hay.

Hay, O. P. 1902 C, 383, figs. 1-5 (Testudo).
1908 A, 398, 464, text-figs. 627, 628 (Testudo).
1916 C, 56.
1920 B, 134.
1924 D, 247, 248, 249 (Testudo, Gopherus).
Pleistocene (Early); Texas.

Gopherus polyphemus (Daudin).

Daudin, F. M. 1803, Hist. Nat. Rept., II, 256.
Abel, O. 1912 F, 254, fig. 185 (Testudo).
Agassiz, L. 1857 B, 447 (Xerobates).
Boulenger, G. A. 1889 A, 155 (Testudo).
Hay, O. P. 1916 C, 47, 55, 75, 76.
1917 E, 44.
1923 A, 382.
Holbrook, J. E. 1842, N. Amer. Herpet., 25, pl. i (Testudo).
Sellards, E. H. 1916 C, 147.
Shaler, N. S. 1888 A, 37 (G. carolinus).
Stejneger, L. 1893, N. Amer. Fauna, No. 7, 161.
Stejneger and Barbour 1917 A, 121.
Recent; South Carolina to Florida, west to southern Arkansas: Pleistocene (Middle?); Florida.

Gopherus præcedens Hay.

Hay, O. P. 1916 C, 55, 75, pl. iv, figs. 1, 2.
Gidley, J. W. 1927 E, 274.
Hay, O. P. 1923 A, 383.
1927 D, 274.
Sellards, E. H. 1916 C, 145.
Pleistocene (Early); Florida.

TESTUDO Linnæus. Type *T. græca* Linnæus.

Hay, O. P. 1902 A, 451.
Abel, O. 1912 F, 356, 703, fig. 184.
Andrews, C. W. 1896 B, 148.
1903 A.
1906 A, xxiv, fig. 277.
Arldt, T. 1907 D, 684.
Bates, D. M. A. 1914 A, 100.
Bender, O. 1911 A, 161.
1912 A, 3.
Beyer, H. 1907 A, 289. fig. 7.
Boas, J. E. V. 1914 C, 290, fig. 79.
Bojanus, L. H. 1819 A, 1362, pl. xvi, figs. 2, 3.
Bronn, H. G. 1848 B, 1259.
1849 A, 693.
Broom, R. 1921 A, 154, fig. 23.
Brown, A. E. 1904 A, 467.
Dollo, L. 1903 C.
Douglass, E. 1905 A, 211.
Fitzinger, L. 1836 A, 112.
Fraas, E. 1913 B, 17.

Frassetto, F. 1915 A, fig. 37.
Fries, C. 1924 A, 277.
Fuchs, H. 1907 B, 429, pl. xx, figs. 9, 9a.
1913 A, 59.
1920 A, 370.
1927 A, 313, fig. 5.
Gadow, H. 1896 A, 42.
1901 B, 365.
1905 B, 63, fig. 45.
Garman, S. 1917 A.
Gaupp, E. 1899 A, 1091.
1905 D, 1018.
1906 B, 788.
1908 B.
Gervais, P. 1852 A, 243.
1859 A, 408.
Gill, T. 1907 A, 492.
Gilmore, C. W. 1917 A, 154.
Gray, J. E. 1855 A, 4.
1873 D, 162, pl. iv.
Gregory and Camp 1918 A, 14.
Günther, A. C. 1898 A, 14.
Hasse, C. 1871 A, figs.
Hay, O. P. 1905 A, 149.
1908 A, 373, 397.
1926 E, 388.
1928 A, 7, 10.
Heilprin, A. 1887 A, 314, 315.
Hoffmann, C. K. 1879 B, 53.
Huene, F. 1920 D, 166.
Huxley, T. H. 1887 C, 236.
Jaekel, O. 1907 B, 63, fig. 45.
1915 A, 105, fig. 8.
1916 A, 41, 49, 58.
Kehrer, F. A. 1896 A, 354, figs. 20, 21.
Klaauw, C. J. 1924 B, 592.
Köstlin, O. 1844 A.
Le Conte, J. 1854 A, 188.
Leidy, J. 1877 A, 232 (Eupachemys, type E. obtusa Leidy).
Lorenz, L. E. F. 1807 A, 5.
Lull, R. S. 1924 A, 275.
Lydekker, R. 1903 C, 54, figs. 1, 2.
1907 E, 680.
1910 A, 302.
Matthew, W. D. 1915 A, 280.
1918 I, 662.
Meckel, J. F. 1825 A.
Moodie, R. L. 1908 D, 445.
Nopcsa, F. 1923 F.
1923 H, 12, 13, 30, 34, pl. i, fig. 5.
1926 A, 653.
Osborn, H. F. 1909 D, 58, 136.
Oswald, F. 1909 A, 125.
Owen, R. 1848 B, 99.
1866 A.
1868 A, 911.
Paramore, R. H. 1910 A, 1398, fig. 9.
Pictet, F. J. 1853 A, 443.
Plieninger, F. 1906 A, 406.
Proctor, J. B. 1922 A, 483.
Rabl, C. 1903 A, 170, pl. i, fig. 7.
Rathke, H. 1846 A, 161, 163.
Rice, E. L. 1920 A.
Rogers, A. F. 1924 A, 544 (Zerobates).
Safford, W. E. 1911 A, 751.
Scharff, R. F. 1911 A, 304, 329 ("giant tortoises").
1922 A, 69.
Schöne, G. 1902 A, 12, fig. 3.
Seeley, H. G. 1876 C, 174, 177, 181.
1886 A, 512.
Sewertzoff, A. N. 1908 A, 310.
Seydel, O. 1899 A, 487, figs. 16, 20.
Shufeldt, R. 1921 A, 220.
Shumard, B. F. 1863 A, 141.
Siebenrock, F. 1900 A, 441.
1906 A, 821.
1909 A, 515.
1919 A, 275.
Siegelbauer, F. 1909 A, 184.
Smith, L. W. 1914 A, 557.
Strecker, C. 1887 A, 303.
Stromer, E. 1906 A, 209, 212.
1916 A, 402.
Taschenberg, O. 1894 A, 3646.
Tornier, G. 1913 B, 365.
Vaillant, L. 1877 A, 14.
1877 C, 56.
1881 A, 25-27, 102, pl. xxvii.
1903 A, 705.
Virchow, H. 1919 A, 304, 315, fig. 5.
1926 A, 216, figs. 1, 2.
Wallace, A. R. 1876 A, II, 408.
Wiedersheim, R. 1892 A, 52.
Wieland, G. R. 1923 A, 10.
Williston, S. W. 1918 A, 78, 81, fig. 3.
1925 A, 138, 153, 180, figs. 109, 127, 146.
1925 B, 227.
Woodward, H. 1904 B, 143.
Zdansky, O. 1924 A, 92.
Zittel and Broili 1911 A, 252.
1923 A, 307.
Zittel, Eastman, etc. 1902 A, 203.
Zuckerkandl, E. 1908 A, 497.

Testudo amphithorax Cope.

Hay, O. P. 1902 A, 451.
Gilmore, C. W. 1915 H, 155.
Hay, O. P. 1908 A, 397, 407, text-figs. 526-531.
Lower Oligocene (Chadron); Colorado, Wyoming?.

Testudo annæ Hay.

Hay, O. P. 1923 B, 114, pl. viii, fig. 4.
Cahn, A. R. 1922 A, 23 (T. crassiscutata).
Hay, O. P. 1917 B, 11, pl. i, fig. 3; pl. ii, figs. 2-5; pl. iii, fig. 1 (T. crassiscutata?).
1924 D, 227, 241, 245.
Pleistocene (Aftonian); Texas.

Testudo arenivaga Hay.

Hay, O. P. 1906 A, 16, text-figs. 6-8.
Abel, O. 1926 B, 358.
Hay, O. P. 1908 A, 398, 430, text-figs. 563-565.
Loomis, F. B. 1909 A, 17, figs. 1-4.
O'Harra, C. C. 1920 A, 160.
Lower Miocene (Harrison); Nebraska.

Testudo brevisterna Loomis.

Loomis, F. B. 1909 A, 21, figs. 5-8.
Abel, O. 1926 B, 358.
Lower Miocene (Harrison); Wyoming.

Testudo brontops Marsh.

Hay, O. P. 1902 A, 451.
Gilmore, C. W. 1915 H, 154.
Hay, O. P. 1904 A, 272, text-figs. 6, 7.
1908 A, 397, 398, pl. lxv, figs. 1, 2; text-figs. 504, 505.
O'Harra, C. C. 1920 A, 160.
Osborn, H. F. 1909 D, 58.
Lower Oligocene (Chadron); South Dakota.

Testudo campester Hay.

Hay, O. P. 1908 A, 398, 455, text-figs. 610-613.
Gidley, J. W. 1903 C, 627.
Hay, O. P. 1924 D, 239.
Troxell, E. L. 1915 A, 616.
Pliocene (Blanco); Texas: Pleistocene?; Texas.

Testudo crassiscutata Leidy.

Hay, O. P. 1902 A, 451.
1908 A, 398, 459, text-figs. 616-622.
1916 C, 50.
1923 A, 497.
1923 B, 116.
Matson and Clapp 1909 A, 136.
Merrill, G. P. 1907 A, 77.
Sellards, E. H. 1916 A, 235.
Spencer, J. W. 1895 A, 137.
Pleistocene (Peace Creek); Florida.

Testudo cultrata Cope.

Hay, O. P. 1902 A, 451.
1908 A, 397, 411.
Lower Oligocene (Chadron); Colorado.

Testudo distans Hay.

Hay, O. P. 1916 C, 48, pl. iii, fig. 9.
1923 A, 378.
Pleistocene (Early); Florida.

Testudo edæ Hay.

Hay, O. P. 1906 A, 19, pls. vii, viii.
1908 A, 398, 450, pl. lxxxiii, figs. 1, 2.
Loomis, F. B. 1909 A, 17.
O'Harra, C. C. 1910 A, 119 (T. ediæ).
1920 A, 160.
Peterson, O. A. 1906 C, 56.
Lower Miocene (Upper Harrison); Nebraska.

Testudo emiliæ Hay.

Hay, O. P. 1908 A, 398, 419, pl. lxx, figs. 1, 2.
O'Harra, C. C. 1920 A, 160.
Lower Miocene (Rosebud); South Dakota.

Testudo equicomes Hay.

Hay, O. P. 1917 D, 40, pl. i, figs. 1-3; pl. iii, fig. 1.
1924 D, 270.
Pleistocene (Sheridan); Kansas.

Testudo exornata Lambe.

Lambe, L. M. 1906 A, 187, pl. iii, figs. 1-3.
Hay, O. P. 1908 A, 397, 401, pl. lxvi, figs. 6, 7; text-figs. 506-508.
Lambe, L. M. 1908 A, 9, 18, pl. i, figs. 20-22.
Oligocene (White River); Assiniboia.

Testudo farri Hay.

Hay, O. P. 1908 A, 398, 418, pl. lxix, figs. 1, 2; text-figs. 548, 549.
Middle Miocene (Deep River); Montana.

Testudo francisi Hay.

Hay, O. P. 1923 B, 116, pl. viii, figs. 4, 5.
1924 D, 162, 242, 243.
Pleistocene (Aftonian); Texas.

Testudo gilbertii Hay.

Hay, O. P. 1902 A, 451.
1908 A, 398, 449, pl. lxxx, figs. 2-5.
Matthew, W. D. 1924 C, 210 (T. gilberti).
Miocene (Republican River); Kansas.

Testudo hayi Sellards.

Sellards, E. H. 1916 A, 235, fig. 1.
Hay, O. P. 1916 C, 52.
1923 A, 380.
1923 B, 116.
Sellards, E. H. 1915 D, 70, 73, 75, figs. 7, 9 ("land tortoise").
Pliocene? (Bone Valley); Florida.

Testudo hexagonata Cope.

Hay, O. P. 1902 A, 451.
Dumble, E. T. 1894 A, 564.
Gidley, J. W. 1903 C, 623.
Hay, O. P. 1908 A, 398, 463, text-figs. 625, 626.
1924 D, 239.
Montgomery, T. H. 1904 A, 57.
Pleistocene (Sheridan); Texas.

Testudo hollandi Hay.

Hay, O. P. 1906 A, 18, pls. v, vi.
Douglass, E. 1907 A, 809.
Hay, O. P. 1908 A, 398, 451, pl. lxxxiv, figs. 1, 2.
Loomis, F. B. 1909 A, 17.
O'Harra, C. C. 1920 A, 160.
Peterson, O. A. 1906 C, 56.
Lower Miocene (Upper Harrison); Nebraska.

Testudo impensa Hay.

Hay, O. P. 1908 A, 398, 431, pls. lxxvi, lxxvii; text-figs. 566-572.
Loomis, F. B. 1927 A, 438.
Merriam, J. C. 1919 A, 461.
Upper Miocene (Arikaree); Montana.

Testudo incisa Hay.

Hay, O. P. 1916 C, 46, pl. iii, figs. 5-8.
1923 A, 378.
Pleistocene (Early); Florida.

Testudo inusitata Hay.

Hay, O. P. 1906 A, 18, pls. iii, iv.
1908 A, 398, 417, pl. lxviii, figs. 1, 2.
Middle Miocene (Deep River); Montana.

Testudo klettiana Cope.

Hay, O. P. 1902 A, 451.
1908 A, 398, 436, text-figs. 574.
Merriam, J. C. 1919 A, 461.
Merrill, G. P. 1907 A, 78.
Upper Miocene (Santa Fe?); New Mexico.

Testudo laticaudata Cope.

Hay, O. P. 1902 A, 451.
Dumble, E. T. 1894 A, 564.
Gidley, J. W. 1903 C, 623.
Hay, O. P. 1908 A, 398, 462, text-figs. 623-624.
1924 D, 239.
Montgomery, T. H. 1904 A, 57.
Pleistocene (Sheridan); Texas.

Testudo laticunea Cope.

Hay, O. P. 1902 A, 451.
Cope, E. D. 1891 N, 40, fig. 18.
Hay, O. P. 1908 A, 397, 402, pl. lxvii, figs. 1, 2; text-figs. 509-515.
Sternberg, C. H. 1913 A, 46.
Toula, F. 1896 A, 918.
Lower Oligocene (Chadron); Colorado.

Testudo ligonia Cope.

Hay, O. P. 1902 A, 451.
1908 A, 397, 405, text-figs. 516-525.
Lower Oligocene (Chadrón); Colorado.

Testudo luciæ Hay.

Hay, O. P. 1916 C, 52, 75, pl. ix, fig. 5.
1923 A, 383.
1923 B, 116.
Loomis, F. B. 1927 A, 435.
Sellards, E. H. 1916 C, 145.
Pleistocene (Early); Florida.

Testudo mohavensis Merriam, J. C.

Merriam, J. C. 1919 A, 450, 456, 527, 533, figs. 4-6.
Upper Miocene (Barstow); California.

Testudo munda Hay.

Hay, O. P. 1920 B, 86, pl. iii, figs. 1-3.
1923 A, 395.
Pleistocene (Middle); Tennessee.

Testudo niobrarensis Leidy.

Hay, O. P. 1902 A, 450 (Stylemys).
Cope, E. D. 1874 B, 532 (Stylemys).
Hay, O. P. 1908 A, 398, 437, text-figs. 575-578.
Leidy, J. 1873 B, 225, 340, pl. iii, figs. 4-6; pl. xix, figs. 6, 8.
Merrill, G. P. 1907 A, 78.
O'Harra, C. C. 1920 A, 160.
Pleistocene (Sheridan); Nebraska.

Testudo obtusa Leidy.

Hay, O. P. 1902 A, 448 (Eupachemys).
1908 A, 398, 458, text-figs. 614, 615.
1923 A, 381, 384.
Matson and Clapp 1909 A, 136 (Eupachemys sp.).
Tertiary or Pleistocene; South Carolina.

Testudo ocalana Hay.

Hay, O. P. 1916 C, 45, pl. iii, figs. 1-4; pl. ix, figs. 1-3.
1923 A, 378, 379.
Pleistocene (Early); Florida.

Testudo orthopygia (Cope).

Hay, O. P. 1902 A, 451 (T. orthopygia, T. cyclopygia, T. snoviana).
Barbour, E. H. 1914 B, 189.
1914 C, 221.
1915 A, 92.
1915 C, 335, figs. 1, 2.
Barbour and Cook 1917 A, 172.
Hay, O. P. 1908 A, 398, 438, pl. xix, figs. 6, 7; pls. lxxviii-lxxx, lxxxi, lxxxii; text-figs. 579-606, 607?, 608?.
Matthew, W. D. 1902 D, 295 (Caryoderma snoviana).
1924 C, 68, 210 (This species?).
Scharff, R. F. 1909 A, 515 (Caryoderma).
Sternberg, C. H. 1906 A, 72 T (Xerobates).
1909 C, 122, 138, 269, fig. 22.
Upper Miocene and Lower Pliocene (Republican River); Kansas: (Snake Creek); Nebraska.

Testudo orthopygia angusticeps Matthew.

Matthew, W. D. 1924 C, 68, 210.
Middle Miocene (Sheep Creek); Nebraska.

Testudo osborniana Hay.

Hay, O. P. 1904 C, 503.
1908 A, 398, 422, pls. lxxii-lxxv; text-figs. 552-562.
Huene, F. 1920 D, 166.
Loomis, F. B. 1927 A, 439.
Matthew, W. D. 1924 C, 210.
Safford, W. E. 1911 A, 751.
Upper Miocene (Pawnee Creek); Colorado.

Testudo pansa Hay.

Hay, O. P. 1908 A, 398, 420, pl. lxxi, figs. 1, 2; text-figs. 550, 551.
Merriam, J. C. 1919 A, 461.
Upper Miocene (Pawnee Creek); Colorado.

Testudo peragrans Hay.

Hay, O. P. 1906 A, 15, text-figs. 1-5.
1908 A, 398, 412, text-figs. 534-538.
Tertiary (Oligocene or Miocene); Montana.

Testudo pertenuis Cope.

Hay, O. P. 1902 A, 451.
Dumble, E. T. 1894 A, 559.
Gidley, J. W. 1903 C, 627.
Hay, O. P. 1908 A, 398, 454, text-fig. 609.
Matthew, W. D. 1918 I, 662.
Montgomery, T. H. 1904 A, 57.
Pliocene (Blanco); Texas.

Testudo præextans Lambe.

Lambe, L. M. 1913 B, 61, pls. iv, v.
Lydekker, R. 1914 A, 644.
Oligocene (Chadron or Brule); Wyoming.

Testudo quadrata Cope.

Hay, O. P. 1902 A, 451.
1908 A, 397, 410, text-figs. 532, 533.
Seeley, H. G. 1886 A, 512.
Lower Oligocene (Chadron); Colorado.

Testudo sellardsi Hay.

Hay, O. P. 1916 C, 49, 50, 75, pl. viii, figs. 6-8.
1917 B, 13.
1923 A, 382.
1923 B, 116.
1927 C, 282 ("tortoises").
Loomis, F. B. 1927 A, 435, figs. 1, 2.
Sellards, E. H. 1916 C, 145.
Pleistocene (Early); Florida.

Testudo snoviana (Cope).

Hay, O. P. 1902 A, 451.
Böse, E. 1905 A, 67, 68 ("Caryoderma").
Gregory, J. W. 1895 A, 304 ("Caryoderma").
Miocene?; Kansas.

Testudo thomsoni Hay.

Hay, O. P. 1908 A, 397, 400, pl. lxvi, figs. 1-5.
Lambe, L. M. 1913 B, 57.
Matthew, W. D. 1924 C, 210.
O'Harra, C. C. 1920 A, 160.
Lower Oligocene (Chadron); S. Dakota.

Testudo turgida Cope.

Hay, O. P. 1902 A, 452.
Dumble, E. T. 1894 A, 559.
Gidley, J. W. 1903 C, 627.
Hay, O. P. 1908 A, 398, 453.
Montgomery, T. H. 1904 A, 57.
Pliocene (Blanco); Texas.

Testudo uintensis Gilmore.

Gilmore, C. W. 1915 H, 150, pl. xxvii; text-figs. 21, 22.
Upper Eocene (Uinta); Utah.

Testudo undabuna Loomis.

Loomis, F. B. 1909 A, 25, fig. 9.
Abel, O. 1926 B, 358 (T. unabuna).
Lower Miocene (Harrison); Wyoming.

Testudo undata Cope.

Hay, O. P. 1902 A, 452.
Dames, W. 1899 A, 365.
Hay, O. P. 1908 A, 398, 435, text-fig. 573.
Merriam, J. C. 1919 A, 461.
Merrill, G. P. 1907 A, 78.
Upper Miocene (Santa Fe); New Mexico.

Testudo vaga Hay.

Hay, O. P. 1908 A, 398, 414, pl. xix, fig. 5; text-figs. 539-547.
Middle Miocene (Deep River); Wyoming.

Testudo sp. indet.

Cooper, J. G. 1875 A, 390 (This genus?). Pliocene? California.
Deussen, A. 1924 A, 97 (This genus?). Miocene (Oakville); Texas.
Frick, C. 1921 A, 334, figs. 42, 44. Pliocene (San Timoteo); California.
1923 A, 40.
Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1902 A, 452. Pleistocene (Peace Creek); Florida.
1924 D, 384. Pleistocene; Texas.
1926 C, 1. Pleistocene (Early); Texas.
1927 D, 313. Pleistocene; California, Florida, Texas.
Matthew, W. D. 1915 L, 472. Miocene (Fleming); Texas.
Merriam, J. C. 1917 A, 425, 430, 437. Pliocene (Etchegoin); California: (Ricardo); California: Pliocene (Snake Creek); Nebraska.
Merriam and Buwalda 1917 A, 258 (Oregon, in Ellensburg formation).
Sinclair, W. J. 1915 A, 77 ("land tortoise"). Pliocene (Snake Creek); Nebraska.
Spencer, J. W. 1895 A, 137 (Eupachemys sp.). Pleistocene (Peace River); Florida.

Superfamily TRIONYCHOIDÆ Stannius.

Stannius, H. 1854 A, 8 (As a family).
Hay, O. P. 1902 A, 452 (Trionychia).
Abel, O. 1919 A, 414.
1920 A, 367 (Trionychoidea).
Arldt, T. 1907 D, 146, 331 (Trionychia).
Baur, G. 1891 E, 633 (Trionychia).
Bonaparte, C. L. 1833 B, 1183 (Trionycidæ).
Cope, E. D. 1891 N, 39 (Trionychoidea).
Cuvier, G. 1825 A, v, 2, 221 (Trionyx).
Dollo, L. 1886 B, 131.
1889 B, 669, 676.
1913 A, 50 ("trionychoides").
Fuchs, H. 1907 B, 435.
1908 C, 155 ("trionychoiden").
Gadow, H. 1901 B, 404.
Harrassowitz, H. 1922 A, 142, 211, 217, 221, 222 (Trionychoidea).
Hay, O. P. 1905 A, 162.
1905 G, 333, 338.
1908 A, 10, 17, 43, 465.
1928 A, 6 (Trionychoidea).
Jaekel, O. 1902 B, 136 (Trionychida).
1911 A, 186 (Trionychii).
Lydekker, R. 1912 C, 28.
Mantell, G. A. 1844 A, 766 (Trionyces).
Nopcsa, F. 1923 H, 33, 34, 35, 36, 122, 150, 166, 172 (Trionychidæ, Trionychinæ).
Ogushi, K. 1911 A, 2.
Oswald, F. 1911 A, 410.
Rabl, C. 1903 A ("trionychiden").
Reynolds, S. H. 1897 A, 194 (Trionychia).
Siebenrock, F. 1909 A, 586.
Stehli, G. 1910 A, 787 (Trionychia).
Steinmann, G. 1907 A, 435.
Stejneger, L. 1907 C, 513 (Chilotæ).
Tornier, G. 1913 B, 366 (Trionychia).
Vaillant, L. 1877 C, 55 (Trionychida).
1881 A, 99 (Trionychida).
Walther, W. G. 1922 A, 85, 86 (Trionychoidea).
Williston, S. W. 1908 G, 804.
1914 A, 16, 45, 222, 244.
1925 A, 198.
1925 B, 210, 223, 227 (Trionychoidea).
Woodward, A. S. 1898 B, 176 (Trionychia).
Zdansky, O. 1924 A, 91 (Trionychoidea).
Zittel and Broili 1911 A, 311.
1923 A, 311.
Zittel, Eastman, etc. 1902 A, 195.

PLASTOMENIDÆ Hay.

Hay, O. P. 1902 A, 452.
Arldt, T. 1912 A, 712.
Haeckel, E. 1895 A, 322 (Plastomenida).
Harrassowitz, H. 1922 A, 142.
Hay, O. P. 1905 G, 333.
  1908 A, 11, 466.
Matthew, W. D. 1921 D, 211, 214.
Teppner, W. 1914 A, 637.
Walther, W. G. 1922 A, 85, 86, 87.
Williston, S. W. 1925 B, 227.
Zittel and Broili 1923 A, 312.

PLASTOMENUS Cope. Type *P. thomasii* Cope.

Hay, O. P. 1902 A, 452.
Gilmore, C. W. 1916 C, 646.
  1920 A, 52.
Hay, O. P. 1903 H, 350.
  1905 G, 334.
  1906 C, 156.
  1908 A, 466.
Hummel, K. 1927 A, 94.
Lambe, L. M. 1899 A, 185.
Nopcsa, F. 1923 H, 150.
  1928 A, 167.
Osborn, H. F. 1902 I, 16.
Peale, A. C. 1876 A, 154.
Whiteaves, J. F. 1901 A, 185.
Williston, S. W. 1925 B, 227.

Plastomenus acupictus Hay.

Hay, O. P. 1907 B, 852, pl. liv, figs. 1-3; text-fig. 8.
Gardner, J. H. 1910 A, 731.
Gilmore, C. W. 1920 A, 10.
Hay, O. P. 1908 A, 467, 470, text-fig. 629.
Hummel, K. 1927 A, 72.
Reeside, J. B. 1924 A, 42.
  Paleocene (Torrejon); New Mexico.

Plastomenus catenatus Cope.

Hay, O. P. 1902 A, 453 (P. thomasi, in part).
  1908 A, 467, 470, pl. lxxxvi, fig. 1.
  Lower Eocene (Wasatch); New Mexico.

Plastomenus communis Cope.

Hay, O. P. 1902 A, 452.
Gardner, J. H. 1910 A, 731.
Hay, O. P. 1908 A, 467, 473, pl. lxxxvi, figs. 6-8.
Loomis, F. B. 1907 B, 358.
Merrill, G. P. 1907 A, 75.
  Lower Eocene (Wasatch); New Mexico.

Plastomenus corrugatus Cope.

Hay, O. P. 1902 A, 452.
  1908 A, 467, 473, pl. lxxxvi, fig. 5.
Loomis, F. B. 1907 B, 358.
  Lower Eocene (Wasatch); New Mexico.

Plastomenus costatus Cope.

Hay, O. P. 1902 A, 452.
Bowen, C. F. 1915 A, 126.
Hatcher, J. B. 1905 B, 74.
Hay, O. P. 1903 D, 119.
  1908 A, 467, pl. lxxxv, figs. 1, 2.
Knowlton, F. H. 1911 C, 55, 63.
Lambe, L. M. 1904 C, 22, 37, 47.
  1906 A, 195.
Osborn, H. F. 1902 I, 12, 16.
  Upper Cretaceous (Belly River); Assiniboia: (Hell Creek); Montana.

Plastomenus? fractus Cope.

Hay, O. P. 1902 A, 452.
  1908 A, 467, 472, pl. lxxxvi, fig. 4.
Loomis, F. B. 1907 B, 358.
  Lower Eocene (Wasatch); New Mexico.

Plastomenus insignis Cope.

Hay, O. P. 1902 A, 452.
Bowen, C. F. 1915 A, 126.
Cope, E. D. 1874 B, 433, 454.
Hatcher, J. B. 1905 B, 75.
Hay, O. P. 1908 A, 467, 469.
Knowlton, F. H. 1911 C, 56, 62.
Osborn, H. F. 1902 I, 12.
  Upper Cretaceous (Arapahoe?); Colorado.

Plastomenus? lachrymalis Cope.

Hay, O. P. 1902 A, 452.
  1908 A, 467, 472, pl. lxxxvi, fig. 3.
Hummel, K. 1927 A, 72.
  Lower Eocene (Wasatch); New Mexico.

Plastomenus? leptomitus (Cope).

Hay, O. P. 1902 A, 454 (Trionyx).
  1908 A, 467, 470, pl. lxxxvi, fig. 2; text-fig. 630.
Loomis, F. B. 1907 B, 358 (Trionyx).
Merrill, G. P. 1907 A, 80 (Trionyx).
  Lower Eocene (Wasatch); New Mexico.

Plastomenus molopinus Cope.

Cope, E. D. 1872 NN, 2 (Anostira).
Hay, O. P. 1902 A, 452.
  1908 A, 467, 481, pl. lxxxv, fig. 3; text-fig. 642.
Hummel, K. 1927 A, 72.
  Middle Eocene (Bridger); Wyoming.

Plastomenus œdemius Cope.

Cope, E. D. 1872 NN, 2 (Anostira).
Hay, O. P. 1902 A, 453.
Harrassowitz, H. 1922 A, pl. ii, fig. 6 (P. œdemicus).
Hay, O. P. 1905 G, 334.
  1908 A, 467, 479, figs. 640, 641.
Hummel, K. 1927 A, 72.
  Middle Eocene (Bridger); Wyoming.

Plastomenus? punctulatus Cope.

Hay, O. P. 1902 A, 453.
Bowen, C. F. 1915 A, 126.
Hatcher, J. B. 1905 B, 74.
Hay, O. P. 1908 A, 467, 468.
Knowlton, F. H. 1911 C, 56, 62.
Osborn, H. F. 1902 I, 12, 16.
  Upper Cretaceous (Arapahoe); Colorado: (Lance?); North Dakota?

Plastomenus robustus Gilmore.

Gilmore, C. W. 1920 A, 8, 10, 53, pl. xvii, fig. 1; text-figs. 23, 24.
Reeside, J. B. 1924 A, 23.
Upper Cretaceous (Kirtland); New Mexico.

Plastomenus tantillus Hay.

Hay, O. P. 1908 A, 467, 478, text-figs. 638, 639.
Middle Eocene (Bridger); Wyoming.

Plastomenus thomasii Cope.

Cope, E. D. 1872 NN, 3 (Trionyx).
Hay, O. P. 1902 A, 453.
1905 G, 334, fig.
1908 A, 467, 474, text-figs. 631-635.
Hummel, K. 1927 A, 18.
Merrill, G. P. 1907 A, 75 (P. multifoveatus).
Middle Eocene (Bridger); Wyoming, New Mexico.

Plastomenus torrejonensis Gilmore.

Gilmore, C. W. 1920 A, 10, 55, pl. xix, fig. 2; text-fig. 25.
Paleocene (Torrejon); New Mexico.

Plastomenus visendus Hay.

Hay, O. P. 1908 A, 467, 476, pl. lxxxvii, figs. 1, 2; text-figs. 606, 637.
Hummel, K. 1927 A, 73.
Middle Eocene (Bridger); Wyoming.

Plastomenus sp. indet.

Gilmore, C. W. 1916 D, 299, pl. lxxvii, fig. 1. Upper Cretaceous (Puerco); New Mexico.
Reeside, J. B. 1924 A, 38. Upper Cretaceous (Puerco); New Mexico.

TRIONYCHIDÆ Bonaparte.

Bonaparte, C. L. 1838 A, 136.
Hay, O. P. 1902 A, 453 (Trionychidæ, Trionyx).
Abel, O. 1907 A, 226 ("trionychiden").
1912 F, 221, 705 ("trionychiden").
1928 A, 373 ("trionychiden").
Ammon, L. 1911 A, 10.
Arldt, T. 1907 D, 686.
1909 D, 654 ("trionychier").
1912 A, 712.
Baur, G. 1891 E, 636.
Blainville, H. M. D. 1835 A, 241 (Amyda).
Bluntschli, H. 1912 B, 386 ("trionychiden").
Bonaparte, C. L. 1831 A, 63 (Trionycidæ).
Bronn, H. G. 1849 A, 780, seq.
Broom, R. 1922 A, 21 (Trionyx).
Carus, V. 1875 A, 399.
Dollo, L. 1889 B, 676.
1903 A.
1903 C.
Fraas, E. 1903 A, 96.
1905 B, 364.
Fuchs, H. 1909 B, 144, fig. 21 (Trionyx).
1920 A, 361.
1920 B, 29.
Gaupp, E. 1905 D, 1020.
1906 B, 791.
1911 C, 449.
1913 A, 95.
Geoffroy St. Hillaire, E. F. 1832 A, 352 ("trionyx").
Gray, J. E. 1825 A, 212 (Trionicidæ).
1855 A, 62 (Trionycidæ).
1873 D, 167, 170.
Harkness, R. 1852 A, 253 (Trionycideæ).
Harrassowitz, H. 1919 A, 153 ("trionychiden").
1922 A, 141, 142, 210, 212.
1922 B, 93 ("trionychiden").
Hatcher, J. B. 1902 D, 124.
Hay, O. P. 1903 C, 268.
1904 B, 254.
1905 G, 333.
1908 A, 11, 17, 35, 483.
1928 A, 5.
Heilprin, A. 1887 A, 314.
Hoernes, R. 1886 A, 588 (Trionyx).
Hoffmann, C. K. 1879 B, 61 (Trionycidæ).
Hummel, K. 1927 A, 6 ("trionychiden").
Jaekel, O. 1905 C, 142, figs. 11, 12 (Trionyx).
1907 B, 59, fig. 42 ("trionychiden").
1916 A, 207 (Trionychii).
Kesteven, H. 1916 A, 305 (Trionyx).
1919 A, 234, fig. 13 (Trionyx).
Kingsley, J. S. 1925 A, 15, 148, 149, figs. 13, 27, 157, 158.
Köstlin, O. 1844 A (Trionyx).
Lane, H. H. 1910 B, 345.
Leunis and Ludwig 1883 A, 536.
Lobley, J. L. 1908 A, 203, 208.
Lydekker, R. 1886 G, 523.
1912 C, 34, 109, 125.
Matthew, W. D. 1914 B, 387.
1915 A, 284.
1921 D, 211, 214.
Meckel, J. F. 1825 A (Trionyx).
Newman, H. H. 1906 A, 74.
Nopcsa, F. 1923 F.
1923 H, 39, 122.
1926 A, 654.
1928 A, 167 (Trionychinæ).
Ogushi, K. 1911 A, 1 ("trionychoiden").
1913 A, 299 ("trionichiden").
Owen, R. 1842 F, 72 (Trionyces).
1868 A, 912 (Trionyx).
Palacký, J. 1894 A, 133 ("trionyciden").
Peters, W. 1869 A, 7 (Trionychides).
Pictet, F. J. 1853 A, 455.
Rabl, C. 1903 A, 165 ("trionychiden"); 170, pl. i, fig. 6 (Trionyx).
Schmidt, W. J. 1920 A, 10-20 ("trionychiden").
Sewertzoff, A. N. 1908 A, 273, 309.
Siebenrock, F. 1902 A, 807 (Trionychidæ); 815 (Trionyx).
1906 A, 827 (Trionyx).
1909 A, 589.
1923 A, 180.
Siegelbauer, F. 1909 A, 185.
Stehli, G. 1910 A, 783 ("trionyciden").
Stejneger, L. 1905 A, 228.
1907 A, 514.
Stromer, E. 1916 A, 402, 413.
Taschenberg, O. 1894 A, 3647.
Teppner, W. 1914 A, 628 ("trionyciden").

Tornier, G. 1913 A, 336.
Vaillant, L. 1877 A, 14 (Trionyx).
1881 A, 53 ("potamites," Trionyx).
Versluys, J. 1914 B, 335.
1919 A, 15, fig. 13 (Trionyx).
Wagner, R. 1843 A (Trionyx).
Waite, E. R. 1905 A, 116.
Wallace, A. R. 1876 A, II, 409.
Walther, W. G. 1922 A, 83, 86, 88.
Watson, D. M. S. 1914 H, 1012 (Trionyx).
Wieland, G. R. 1902 A, 103 (Trionyx).
Williston, S. W. 1914 A, 245, fig. 129 (Trionyx).
1925 B, 227.
Woodward, A. S. 1888 O, 353.
Zdansky, O. 1924 A, 104.
Zittel and Broili 1911 A, 257 (Trionychiidæ).
1923 A, 312 (Trionychiidæ).
Zittel, Eastman, etc. 1902 A, 196.

HELOPANOPLIA Hay. Type *H. distincta* Hay.

Hay, O. P. 1908 A, 483, 485.
1910 B, 294.
Nopcsa, F. 1928 A, 167.
Teppner, W. 1914 A, 638.
Williston, S. W. 1925 B, 227.

Helopanoplia distincta Hay.

Hay, O. P. 1908 A, 485, pl. lxxxviii, figs. 4, 5.
Bowen, C. F. 1915 A, 126.
Brown, B. 1914 E, 358.
Upper Cretaceous (Lance); Wyoming.

ASPIDERETES Hay. Type *Trionyx gangeticus* Cuvier.

Hay, O. P. 1903 C, 274.
Boulenger, G. A. 1889 G, 244, I. B. 1 (Trionyx, part).
Gadow, H. 1896 A, 42, fig. 45 (Trionyx).
Gilmore, C. W. 1920 A, 56.
Hay, O. P. 1906 C, 156.
1908 A, 483, 485.
1928 A, 5.
Hummel, K. 1927 A, 47, 94.
Rabl, C. 1903 A, 177, fig. 19 (Trionyx).
Rathke, H. 1846 A, 161, 165 (Trionyx).
Rogers, A. F. 1924 A, 546 (Aspiderestes).
Siebenrock, F. 1909 A, 595 (Trionyx).
Teppner, W. 1914 A, 637.
Williston, S. W. 1914 A, 246, figs. 130, 131.
1925 B, 227.

Aspideretes allani Gilmore.

Gilmore, C. W. 1923 D, 1, pls. i-v.
Upper Cretaceous (Belly River); Alberta.

Aspideretes amnigenus Hay.

Hay, O. P. 1910 A, 324, pl. xi, fig. 4.
Upper Cretaceous (Lance); South Dakota.

Aspideretes austerus Hay.

Hay, O. P. 1908 A, 486, 495, text-fig. 649, 650.
Gilmore, C. W. 1916 D, 299, 300, pl. lxxvii, fig. 1; text-figs. 40, 41.
1920 A, 9.
1923 D, 4.
Reeside, J. B. 1924 A, 31.
Upper Cretaceous (Ojo Alamo); New Mexico.

Aspideretes beecheri Hay.

Hay, O. P. 1904 A, 274, pl. xvi.
Baur, G. 1891 B, 418 (Trionyx foveatus).
Bowen, C. F. 1915 A, 124, 149.
Brown, B. 1907 A, 842.
1914 E, 358.
Gilmore, C. W. 1923 D, 6.
Hay, O. P. 1905 A, 170.
1905 B, 178.
1905 G, 338.
1908 A, 486, 492, pl. xc, fig. 2; pl. xcii, figs. 1, 2; pl. xcvi, figs. 1, 2; text-fig. 647.
1910 B, 298.
Huene, F. 1920 D, 166.
Knowlton, F. H. 1911 C, 61, 63.
Upper Cretaceous (Lance); Wyoming: (Judith River, Hell Creek); Montana.

Aspideretes coalescens (Cope).

Hay, O. P. 1902 A, 454 (Trionyx).
Bowen, C. F. 1915 A, 126.
Cope, E. D. 1875 E, 27, 93, 261, pl. viii, figs. 6, 7 (Plastomenus).
1875 W, 337 (Trionyx).
Gilmore, C. W. 1923 D, 3, 5.
Hatcher, J. B. 1905 B, 74 (Plastomenus).
Hay, O. P. 1908 A, 486, 488, pl. lxxxviii, fig. 6; pl. xc, fig. 1; text-fig. 645.
Knowlton, F. H. 1911 C, 53, 63 (Plastomenus).
Lambe, L. M. 1899 B, 184, 188, 189 (Plastomenus).
1902 B, 3, pls. iii, iv (Trionyx vagans).
1904 C, 22, 37, 48 (Trionyx vagans).
1906 A, 193 (Trionyx coalescens).
Osborn, H. F. 1902 I, 12, 16 (Plastomenus).
Whiteaves, J. F. 1901 A, 185, 188 (Plastomenus).
Upper Cretaceous (Belly River); Alberta.

Aspideretes ellipticus Hay.

Hay, O. P. 1908 A, 486, 505, pl. xcv, figs. 1-3; text-figs. 665-666.
Middle Eocene (Bridger); Utah.

Aspideretes fontanus Hay.

Hay, O. P. 1908 A, 486, 494, text-fig. 648.
Gilmore, C. W. 1916 D, 299, 301, fig. 42.
1920 A, 9.
1923 D, 4.
Reeside, J. B. 1924 A, 31.
Upper Cretaceous (Ojo Alamo); New Mexico.

Aspideretes foveatus (Leidy).

Hay, O. P. 1902 A, 454 (Trionyx).
Bowen, C. F. 1915 A, 124, 149.
Brown, B. 1907 A, 842.
1914 E, 358, 378.
Gilmore, C. W. 1917 A, 4.
1923 D, 5.
Hatcher, J. B. 1905 B, 72 (Trionyx).
Hay, O. P. 1903 D, 119 (Trionyx).
1908 A, 486, pl. lxxxix, fig. 2, text-fig. 644.
1910 B, 298.

Knowlton, F. H. 1911 C, 52, 61.
Lambe, L. M. 1902 A, 33, pl. i, figs. 1, 2 (Trionyx).
1902 B, 1, pls. i, ii (Trionyx).
1904 C, 22, 37, 48 (Trionyx).
1906 A, 193 (Trionyx).
1907 B, 179 (Trionyx).
Matthew, W. D. 1916 A, 484.
Merrill, G. P. 1907 A, 80 (Trionyx).
Osborn, H. F. 1902 H, 674 (Trionyx).
1902 I, 12 (Trionyx).
Peale, A. C. 1912 A, 754 (Trionyx).
Sternberg, C. H. 1914 A, 134 (Trionyx).
Teppner, W. 1914 A, 637.
Upper Cretaceous (Judith River, Hell Creek, Two Medicine); Montana: (Belly River); Alberta: (Lance); North Dakota.

Aspideretes grangeri Hay.

Hay, O. P. 1908 A, 486, 507, pl. xcvii, fig. 1; text-fig. 667.
Middle Eocene (Bridger); Wyoming.

Aspideretes granifer Hay.

Hay, O. P. 1908 D, 168, pl. xxvii, figs. 4, 5.
Bowen, C. F. 1915 A, 124.
Gilmore, C. W. 1923 D, 5.
Upper Cretaceous (Judith River); Montana.

Aspideretes? guttatus (Leidy).

Hay, O. P. 1902 A, 454 (Trionyx).
1905 G, 335.
1908 A, 486, 503, text-figs. 663, 664.
Hayden, F. V. 1871 A, 145 (Trionyx).
Merrill, G. P. 1907 A, 80 (Trionyx).
Middle Eocene (Bridger); Wyoming.

Aspideretes lancensis Gilmore.

Gilmore, C. W. 1916 C, 643, pls. xxxiv, xxxv.
Upper Cretaceous (Lance); Wyoming.

Aspideretes latus Gilmore.

Gilmore, C. W. 1919 C, 129-131, pl. xxxvii; text-fig. 8.
1923 D, 2, 5.
Upper Cretaceous (Belly River); Alberta.

Aspideretes maturus Lambe.

Lambe, L. M. 1914 A, 13.
Hay, O. P. 1908 A, 487, pl. 89, fig. 1; text-fig. 643 (A. foveatus).
Gilmore, C. W. 1923 D, 5.
Upper Cretaceous (Belly River); Alberta.

Aspideretes? nassau Hay.

Hay, O. P. 1908 A, 486, 498, text-fig. 653.
Matthew, W. D. 1914 B, 389.
Upper Cretaceous (Fort Union); Montana.

Aspideretes perplexus Gilmore.

Gilmore, C. W. 1920 A, 10, 60, pl. xix, fig. 1; text-fig. 30.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Aspideretes puercensis Hay.

Hay, O. P. 1908 A, 486, 499, pl. xciv, figs. 1-3; pl. civ, figs. 2, 3; text-figs. 654-655.
Gilmore, C. W. 1920 A, 10.
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 38.
Teppner, W. 1914 A, 637.
Paleocene (Puerco); New Mexico.

Aspideretes quadratus Gilmore.

Gilmore, C. W. 1920 A, 10, 59, pl. xxii; text-fig. 29.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Aspideretes reesidei Gilmore.

Gilmore, C. W. 1920 A, 10, 56, pl. xx; text-fig. 26.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Aspideretes sagatus Hay.

Hay, O. P. 1908 A, 486, 497, text-fig. 652 (A. sagatus); pl. xciii, figs. 1-3 (A. foveatus, *errore*).
Gilmore, C. W. 1920 A, 10, 61, pl. xxiii, fig. 1; text-fig. 31.
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Aspideretes singularis Hay.

Hay, O. P. 1907 B, 853, pl. liv, fig. 4; text-figs. 9-17.
Gardner, J. H. 1910 A, 731.
Gilmore, C. W. 1920 A, 10.
1923 D, 6.
Gratacap, L. P. 1908 A, 922.
Hay, O. P. 1908 A, 486, 501, text-figs. 656-662.
Huene, F. 1920 D, 166.
Hummel, K. 1927 A, 15, 86 (Trionyx).
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 42.
Paleocene (Torrejon); New Mexico.

Aspideretes splendidus Hay.

Hay, O. P. 1908 A, 486, 490, pl. lxxxviii, figs. 7-9; pl. xci; text-fig. 646.
Bowen, C. F. 1915 A, 124.
Gilmore, C. W. 1919 C, 131.
1923 D, 3, 4, 5.
Teppner, W. 1914 A, 637.
Upper Cretaceous (Judith River); Montana.

Aspideretes subquadratus Lambe.

Lambe, L. M. 1914 A, 11, pl. i.
Gilmore, C. W. 1923 D, 3, 4, 5.
Lambe, L. M. 1914 F, 297.
Upper Cretaceous (Belly River); Alberta.

Aspideretes? vagans (Cope).

Hay, O. P. 1902 A, 454 (Trionyx).
Bowen, C. F. 1915 A, 124.
Cross, W. 1896 A, 244 ("Trionyx").
Hatcher, J. B. 1905 B, 73 (Trionyx).
Hay, O. P. 1903 D, 119 (Trionyx).
1908 A, 486, 497, pl. xcvi, fig. 3.
Knowlton, F. H. 1911 C, 53, 62 (Trionyx).
Lambe, L. M. 1902 A, 36, pl. i, figs. 3, 4; text-fig. 3 (Trionyx).
Merrill, G. P. 1907 A, 80 (Trionyx).

Osborn, H. F. 1902 H, 674 (Trionyx).
1902 I, 12 (Trionyx).
Sternberg, C. H. 1914 A, 134 (Trionyx).
Upper Cretaceous (Arapahoe or Denver); Colorado, Montana: (Laramie); North Dakota: (Belly River); Canada.

Aspideretes vegetus Gilmore.

Gilmore, C. W. 1920 A, 10, 57, pl. xviii, fig. 2; pl. xxi; text-figs. 27, 28.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Aspideretes vorax Hay.

Hay, O. P. 1908 A, 486, 496, text-fig. 651.
Gilmore, C. W. 1916 D, 299, pl. lxxvii, fig. 3; text-fig. 39.
Gilmore, C. W. 1920 A, 9.
1923 D, 4.
Reeside, J. B. 1924 A, 31.
Upper Cretaceous (Ojo Alamo); New Mexico.

Aspideretes sp. indet.

Gilmore, C. W. 1917 A, 4. Upper Cretaceous (Two Medicine); Montana.
1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
Reeside, J. B. 1924 A, 21. Upper Cretaceous (Fruitland); New Mexico.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.
1926 A, 104. Upper Cretaceous (Edmonton); Alberta.

AXESTEMYS Hay. Type *Axestus byssinus Cope.*

Hay, O. P. 1902 A, 455.
1905 G, 337.
1908 A, 483, 508.
Teppner, W. 1914 A, 638.
Williston, S. W. 1925 B, 227.

Axestemys byssinus (Cope).

Cope, E. D. 1872 NN, 3 (Axestus byssimus).
Hay, O. P. 1902 A, 455.
1905 G, 337.
1908 A, 509, pl. civ, fig. 4; text-figs. 668, 669.
Merrill, G. P. 1907 A, 63 (Axestus).
Middle Eocene (Bridger); Wyoming.

CONCHOCHELYS Hay. Type *C. admirabilis* Hay.

Hay, O. P. 1905 F, 338.
1908 A, 483.
1910 B, 294.
Teppner, W. 1914 A, 638.
Williston, S. W. 1925 B, 227.

Conchechelys admirabilis Hay.

Hay, O. P. 1905 F, 335, text-figs. 1-3.
Gardner, J. H. 1910 A, 731.
Gilmore, C. W. 1920 A, 10.
Hay, O. P. 1908 A, 483, pl. lxxxviii, figs. 1-3.
Hummel, K. 1927 A, 15 (Trionyx).
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 38 (Conochelys).
Paleocene (Puerco); New Mexico.

AMYDA Oken. Type *Trionyx euphraticus* Daudin.

Oken, L. 1816, Lehrbuch Zool., II, 348.
Ammon, L. 1911 A, 11.
Brown, A. E. 1904 A, 467 (Trionyx).
Dollo, L. 1887 B, 393 (Trionyx).
Fitzinger, L. 1836 A, 120.
Foote, J. S. 1916 A, 57.
Fuchs, H. 1907 B, 436, pl. xxi, fig. 18 (Trionyx).
Gilmore, C. W. 1917 A, 155.
1920 A, 62.
Hay, O. P. 1903 C, 268.
1905 A, 155.
1905 G, 335.
1908 A, 483, 510.
1910 B, 294.
Hoernes, R. 1886 A, 588 (Trionyx).
Hummel, K. 1927 A, 1-96, pls. i-xi [Trionyx (Amyda)].
Kasper, A. 1903 A, 171, fig. 2 (Trionyx).
Klaauw, C. J. 1924 B, 592 (Trionyx).
Moodie, R. L. 1908 C, 322 (Trionyx).
Newman, H. H. 1906 A, 74 (Aspidonectes).
Ogushi, K. 1911 A, 1 (Trionyx).
1911 B, 127 (Trionyx).
1913 A, 299 (Trionyx).
Oswald, F. 1909 A, 124 (Trionyx).
Shufeldt, R. 1921 A, 218.
Siebenrock, F. 1909 A, 595 (Trionyx).
Stejneger, L. 1905 A, 229.
1907 A, 514.
Stejneger and Barbour 1917 A, 124.
Teppner, W. 1914 A, 637.
Thäter, K. 1910 A, 492 ("testudo," "trionyx").
Williston, S. W. 1925 B, 227.

Amyda æqua Hay.

Hay, O. P. 1908 A, 511, 517, pl. xcix, figs. 1-3; text-figs. 672, 673.
1902 A, 454 (Trionyx radulus, in part).
1905 G, 336 (Amyda radulus, in part).
Hummel, K. 1927 A, 50 (Trionyx).
Eocene (Bridger); Wyoming.

Amyda? buiei (Cope).

Hay, O. P. 1902 A, 453 (Trionyx).
1908 A, 511, 534, pl. xcviii, fig. 12 (Amyda?).
Miocene (Duplin); North Carolina.

Amyda? cariosa (Cope).

Hay, O. P. 1902 A, 453 (Trionyx).
1908 A, 511, 515, pl. lxxxvi, figs. 9, 10 (Amyda?).
Merrill, G. P. 1907 A, 79 (Trionyx).
Lower Eocene (Wasatch); New Mexico.

Amyda? cellulosa (Cope).

Hay, O. P. 1902 A, 453.
1908 A, 511, 534 (Amyda?).
Case, E. C. 1904 D, 62 (Trionyx).
Shattuck, G. B. 1904 A, xciv.
Middle or Upper Miocene (Calvert); Maryland.

Amyda concentrica (Cope).

Cope, E. D. 1872 NN, 2 (Trionyx).
Hay, O. P. 1902 A, 454 (Trionyx).
1905 G, 336.
1908 A, 511, 522, pl. xcviii, figs. 7-10.
Merrill, G. P. 1907 A, 79 (Trionyx).
Middle Eocene (Bridger); Wyoming.

Amyda crassa Hay.

Hay, O. P. 1908 A, 511, 532, pl. cviii; text-fig. 692.
Gilmore, C. W. 1915 H, 155.
Hummel, K. 1927 A, 50 (Trionyx).
Upper Eocene (Uinta); Utah.

Amyda egregia Hay.

Hay, O. P. 1908 A, 511-531, pl. cvii, figs. 1-3; text-fig. 691.
Gilmore, C. W. 1915 H, 156.
Harrassowitz, H. 1919 A, 153 (Trionyx).
Hummel, K. 1927 A, 50 (Trionyx).
Eocene (Washakie); Wyoming: (Uinta); Utah.

Amyda eloisæ Gilmore.

Gilmore, C. W. 1920 A, 10, 63, pl. xxiv; text-fig. 63.
Reeside, J. B. 1924 A, 42.
Paleocene (Puerco); New Mexico.

Amyda? exquisita Hay.

Hay, O. P. 1908 A, 511, 525, text-figs. 681-683 (Amyda?).
Case, E. C. 1927 C, 223.
Middle Eocene (Bridger); Wyoming.

Amyda franciscæ Hay.

Hay, O. P. 1908 A, 511, 523; pls. cii, ciii; text-figs. 678, 679.
Gilmore, C. W. 1923 D, 6.
Hummel, K. 1927 A, 50 (Trionyx).
Middle Eocene (Bridger); Wyoming.

Amyda? halophila (Cope).

Hay, O. P. 1902 A, 454 (Trionyx).
1908 A, 511, 513, pl. xcvi, figs. 4, 5 (Amyda?).
Upper Cretaceous ("Lower marl bed"); Delaware and New Jersey.

Amyda? lima (Cope).

Hay, O. P. 1902 A, 454 (Trionyx).
1908 A, 511, 533, pl. xcviii, fig. 11 (Amyda?).
Miocene (Kirkwood); New Jersey: (St. Mary's); North Carolina. *Fide* Gilmore.

Amyda mira Hay.

Hay, O. P. 1908 A, 511, 526, pl. cv, fig. 1; pl. cvi; text-figs. 684-686.
Hummel, K. 1927 A, 16, 18, 50 (Trionyx).
Middle Eocene (Bridger); Wyoming.

Amyda nelsoni Case.

Case, E. C. 1927 C, 223, pl. i; text-figs. 1-3.
Middle Eocene (Bridger); Wyoming.

Amyda? prisca (Leidy).

Hay, O. P. 1902 A, 454 (Trionyx).
1908 A, 511, 512, pl. xcvii, figs. 2-6 (Amyda?).
Upper Cretaceous (Navesink?); New Jersey.

Amyda radula (Cope).

Hay, O. P. 1902 A, 454 (Trionyx).
1905 G, 336.
1908 A, 511, 517, pl. lxxxvi, figs. 11, 12.
Merrill, G. P. 1907 A, 80 (Trionyx).
Lower Eocene (Wasatch); New Mexico.

Amyda salebrosa Hay.

Hay, O. P. 1908 A, 511, 524, pl. civ, fig. 1; text-fig. 680.
Case, E. C. 1927 C, 223.
Gilmore, C. W. 1920 A, 63.
Hummel, K. 1927 A, 50 (Trionyx).
Teppner, W. 1914 A, 638.
Middle Eocene (Bridger); Wyoming.

Amyda scutumantiquum (Cope).

Hay, O. P. 1902 A, 454 (Trionyx).
Cope, E. D. 1874 B, 436, 441 (Trionyx).
Gilmore, C. W. 1915 H, 157, pl. xxvi, fig. 2.
Hay, O. P. 1905 G, 336.
1908 A, 511, 521, pl. c, figs. 2-4; pl. ci, fig. i; text-figs. 676, 677.
Loomis, F. B. 1907 B, 358 (Trionyx. This species?).
Middle Eocene (Bridger, Wasatch?); Upper (Uinta?); Wyoming.

Amyda? tritor Hay.

Hay, O. P. 1904 B, 254 (Aspidonectes).
1905 G, 336 (Amyda?).
1908 A, 511, 529, text-figs. 687-689 (Amyda?).
Hummel, K. 1927 A, 16, 50 (Trionyx).
Stejneger, L. 1905 A, 299 (Aspidonectes).
Middle Eocene (Bridger); Wyoming.

Amyda uintaënsis (Leidy).

Hay, O. P. 1902 A, 454 (Trionyx).
1905 G, 336.
1908 A, 511, 519, pl. c, fig. 1; text-figs. 674, 675.
Hummel, K. 1927 A, 50 (Trionyx).
Middle Eocene (Bridger); Wyoming.

Amyda? ventricosa (Cope).

Hay, O. P. 1902 A, 455 (Trionyx).
Cope, E. D. 1877 K, 45, pl. lxiv, figs. 7-13 (Trionyx).
Hay, O. P. 1908 A, 511, 516, pl. xcviii, figs. 1-6 (Amyda?).
Merrill, G. P. 1907 A, 80 (Trionyx).
Lower Eocene (Wasatch); New Mexico.

Amyda? virginiana (Clark).

Hay, O. P. 1902 A, 455 (Trionyx).
Case, E. C. 1901 A, 97, pl. xi, figs. 1, 2 (Trionyx).
Clark and Miller 1912 A, 117, 118 (Trionyx).
Hay, O. P. 1908 A, 511, 515, pl. xcvi, figs. 7, 8; text-figs. 670, 671 (Amyda?).
Lower Eocene (Aquia); Virginia.

Amyda sp. indet.

Gilmore, C. W. 1915 H, 104.

Hay, O. P. 1902 A, 455 (This genus?). Tertiary; Maryland, South Carolina, New Mexico, Wyoming.
1923 A, 353. Pleistocene; Virginia.
1923 B, 118, pl. ix, figs. 2-4. Pleistocene; Texas.
1927 D, 274. Pleistocene; Florida.
Shattuck, G. B. 1904 A, xciv ("Trionyx"). Miocene (Calvert); Maryland.
Shufeldt, R. W. 1918 A, 358 (Apideretes ferox?, Amyda ferox). Pleistocene (Early); Florida.

TEMNOTRIONYX Hay. Type *T. manducans* Hay.

Hay, O. P. 1908 A, 534.
Teppner, W. 1914 A, 638.

Temnotrionyx manducans Hay.

Hay, O. P. 1908 A, 534, pl. cv, figs. 2, 3; text-figs. 690.
Middle Eocene (Bridger); Wyoming.

PLATYPELTIS Fitzinger. Type *Testudo ferox* Schneider.

Fitzinger, L. 1836 A, 120, 127.
Agassiz, L. 1857 B, 400 (Platypeltis); 403 (Aspidonectes).
Baur, G. 1894 B, 349, figs. 1-6.
Gray, J. E. 1873 A, 58.
Hay, O. P. 1905 G, 336.
1908 A, 483, 536.
Hayek, H. 1924 A, 151.
Hummel, K. 1927 A, 47.
Lane, H. H. 1910 B, 345 (Trionyx).
Palacký, J. 1894 A, 133 (Aspidonectes).
Schmidt, W. J. 1920 A, 10 (Trionyx).
Siebenrock, F. 1909 A, 595 (Trionyx).
Teppner, W. 1914 A, 638.
Williston, S. W. 1925 A, 43, 44, 93, figs. 31, 32.
1925 B, 227.

Platypeltis amnicola Hay.

Hay, O. P. 1907 B, 860, pl. liv, figs. 5, 6; text-fig. 19.
1908 A, 536, 540, fig. 697.
Lower Eocene (Wasatch); Wyoming.

Platypeltis antiqua Hay.

Hay, O. P. 1907 B, 859, text-fig. 18.
Gardner, J. H. 1910 A, 731.
Gilmore, C. W. 1920 A, 10.
Hay, O. P. 1908 A, 536, 537, text-fig. 693.
Hummel, K. 1927 A, 86.
Reeside, J. B. 1924 A, 42.
Paleocene (Torrejon); New Mexico.

Platypeltis extensa Hay.

Hay, O. P. 1908 A, 537, 545, pl. cxii; text-fig. 703.
Middle Eocene (Bridger); Wyoming.

Platypeltis ferox (Schneider).

Schneider, J. G. 1783, Schildkröt., 330 (Testudo).
Boulenger, G. A. 1889 A, 259 (Trionyx).
Fuchs, H. 1907 B, 437 (Amyda).
Gray, J. E. 1855 A, 68 (Trionyx).
1873 A, 58, fig. 9.
Hay, O. P. 1908 A, 537, 548.
1923 A, 379.
Shufeldt, R. W. 1918 A, 358 (Trionyx, Amyda).
1921 A, 218.
Siebenrock, F. 1909 A, 603 (Trionyx).
Siebenrock, F. 1923 A, 180 (Trionyx).
Siegelbaur, F. 1909 A, 185 (Trionyx).
Recent; North America east of Mississippi River: Pleistocene (Early); Florida.

Platypeltis heteroglypta (Cope).

Hay, O. P. 1902 A, 454 (Trionyx).
1905 G, 336.
1908 A, 537, 543, pl. xcviii, fig. 14; pl. ci, fig. 2; text-figs. 701, 702.
Middle Eocene (Bridger); Wyoming.

Platypeltis leucopotamica (Cope).

Hay, O. P. 1902 A, 454 (Trionyx leuc., T. punctiger).
1908 A, 537, 546, pl. cxiii, figs. 1-3; text-fig. 704.
Lambe, L. M. 1904 C, 27, 38 (Trionyx).
1905 D, 366 A (Trionyx).
1908 A, 9, 19 (Trionyx).
Teppner, W. 1914 A, 638.
Oligocene (White River); Assiniboia.

Platypeltis miocæna Matthew.

Matthew, W. D. 1924 C, 68, 207, fig. 62.
Upper Miocene (Lower Snake Creek); Nebraska.

Platypeltis postera Hay.

Hay, O. P. 1908 A, 537, 545, pl. cxi, figs. 1, 2.
Teppner, W. 1914 A, 638.
Middle Eocene (Bridger); Wyoming.

Platypeltis serialis (Cope).

Hay, O. P 1902 A, 453 (Plastomenus).
1905 G, 337.
1908 A, 536, 537, pl. xcviii, fig. 13; pl. cix, figs. 1-4; text-figs. 694-696.
Hummel, K. 1927 A, 86.
Lower Eocene (Wasatch); New Mexico: Middle Eocene (Bridger); Wyoming.

Platypeltis trepida Hay.

Hay, O. P. 1907 B, 862, pl. liv, fig. 7; text-fig 20.
1908 A, 536, 541, text-fig. 698.
Middle Eocene (Bridger); Wyoming.

Platypeltis trionychoides (Cope).

Cope, E. D. 1872 NN, 2 (Anostira).
Hay, O. P. 1902 A, 453 (Plastomenus).
1905 G, 336.
1908 A, 537, 541, pl. cx, figs. 1, 2; text-figs. 699, 700.
Merrill, G. P. 1907 A, 62 (Anosteira); 76 (Plastomenus).
Middle Eocene (Bridger); Wyoming.

UNDETERMINED TRIONYCHIDÆ.

Hay, O. P. 1902 A, 455.

Superorder CATACRITOSAURIA, new name.

Order PLESIOSAURIA Blainville.

Blainville, H. M. D. 1835 A, 241.
Hay, O. P. 1902 A, 455.
Abel, O. 1904 B, 741 (Sauropterygia).
1907 A, 225 (Sauropterygia).
1909 F, 463 (Sauropterygia).
1910 B, (186).
1912 F, 78, 136, 149, 221, 693 (Sauropterygia).
1919 A, 481 (Sauropterygia).
1920 A, 375 (Sauropterygia).
1922 C, 546, figs. ("plesiosaurier").
Agassiz, L. 1844 D, 137 ("plesiosaures").
Anderson, R. J. 1909 B, 745 (Sauropterygia).
Andrews, C. W. 1896 B, 145 ("plesiosaurs").
1909 B, 418.
1910 A, 77.
1911 A, 160, 163.
1913 A, vii (Sauropterygia).
Anthony, R. 1913 A, 267 ("sauropterygiens").
Arldt, T. 1907 D, 680 (Sauropterygia).
Arthaber, G. 1924 A, 442, 452 (Sauropterygia).
Bardeleben, K. 1907 A, 37 ("sauropterygier").
Baur, G. 1889 L, 312.
1897 D, 52.
1898 A, 147.
Boas, J. E. V. 1914 B, 560 ("plesiosaurier").
Boule, M. 1902 B, 905, fig. 5 ("plésiosaures").
Boulenger, G. A. 1904 C, 479, 480.
1917 D, 1045 ("plésiosaures").
1917 E, 221.
1917 F, 456 ("plésiosauriens").
1918 E, 517 ("plésiosauriens").
Brandt, J. F. 1865 A, 17 (Sauropterygia).
Brauns, D. 1890 A, 161, 162, 187 (Sauropterygia).
Broili, F. 1913 B, 519 ("sauropterygier").
1920 A, 320 ("sauropterygier").
Broom, R. 1901 A, 188.
1903 I, 554.
1904 C, 109 ("plesiosaurs").
1907 A, 37 ("plesiosaurs").
1908 A, 1054 ("plesiosaurs").
1917 A, 978 ("plesiosaurs").
1922 A, 17, 20, 25.
1924 C, 75.
Brown, B. 1904 A, 185 ("plesiosaurs").
1914 E, 378.
Carus, V. 1875 A, 410 (Sauropterygia).
Case, E. C. 1898 C, 713 (Sauropterygia).
1905 E, 180 ("plesiosaurs").
1923 A, 517 (Sauropterygia).
Cope, E. D. 1880 U, 146 ("sauropterygées").
1891 N, 35, 39.
Dames, W. 1883 C, 398 (Sauropterygia).
1898 F, 48.
Diener, C. 1909 A, 41 ("sauropterygier").
Dollo, L. 1883 G, 594.
1885 D, 632.
1896 A, 83 ("plésiosauriens").
Drevermann, F. 1922 A, 101 ("sauropterygier").
Eastman, C. R. 1904 G, 466 ("plesiosaur").
Fraas, E. 1901 B, cxxvi ("plesiosaurier").
1901 C, 417 ("sauropterygier").
1905 B, 360 ("plesiosaurier").
1910 A, 105 ("plesiosaurier").
Fuchs, H. 1907 A, 161 (Plesiosauria, Sauropterygia).
1909 B, 114, 141, 152 (Sauropterygia).
1911 B (Sauropterygia).
Fürbringer, M. 1902 B, 727 ("plesiosaurier").
1904 A, ("plesiosaurier").
Gadow, H. 1901 A, 410 ("plesiosaurs").
1901 B, 473, 477 (Plesiosauri).
1902 B, 359.
Gaupp, E. 1913 A, 58 ("plesiosaurier").
Gegenbaur, C. 1870 A, 347 ("plesiosauren").
Gervais, P. 1852 A, 269 ("plésiosauriens").
1853 B, 35 ("plésiosaures").
1859 A, 478 ("plésiosauriens").
Goodrich, E. S. 1916 A, 263 (Sauropterygia).
Greene, J. R. 1861 A, 219, 226 (Sauropterygia).
Gregory, W. K. 1910 A, 114.
Haeckel, E. 1868 A, 455.
1873 A, 512.
Hares, C. J. 1917 A, 429 ("plesiosaurs").
Hatcher, J. B. 1905 B, 71.
Hay, O. P. 1905 D, 125 ("plesiosaurs").
1905 H, 296 ("plesiosaurs").
Henderson, J. 1904 A, 466.
Hilzheimer, M. 1913 A, 515 ("sauropterygier").
Hoernes, R. 1886 A, 593 (Sauropterygia).
1912 A, 661.
Howes, G. B. 1902 A, 524.
Howes and Swinnerton 1901 A, 2, 68.
Hubrecht, A. A. W. 1908 A, 153 (Sauropterygia).
Huene, F. 1902 A, 39 ("sauropterygier").
1911 D, 46 ("sauropterygier").
1914 G, 47 ("plesiosaurier").
1920 B, 206 ("sauropterygier").
1921 A, 228 ("sauropterygier").
1925 D, 229, 235, 238 (Sauropterygia).
1926 I, 82 (Sauropterygia).
1927 E, 325 ("sauropterygier").
Huxley, T. H. 1858 F, 525 (Plesiosauri).
1862 A, xlviii.
1870 F, 538.
Jaekel, O. 1902 A, 110 ("plesiosaurier").
1904 A, 33 ("plesiosaurier").
1907 B, 87.
1908 B, 464 ("plesiosaurier").
1910 C, 334 (Sauropterygii).

Jaekel, O. 1910 D, 113 (Enaliosauria).
1911 A, 132 (Enaliosauria); 147 (Sauropterygii).
1912 A, 619 ("sauropterygiens").
1915 A, 99 ("sauropterygier").
Kingsley, J. S. 1912 B, 89, fig. 91 ("plesiosaurs",
1925 A, 45, 144, 245, 254, 282 (Sauropterygia).
Koken, E. 1893 B, 352 ("plesiosaurier").
1901* B, 221 ("plesiosaurier").
Kükenthal, W. 1891 C, 391, 397 ("plesiosauren").
Larger, R. 1913 A, 720.
Lavocat, A. 1885 A, 34 ("plésiosaures").
Leunis and Ludwig 1883 A, 598.
Linder, H. 1913 A, 339 ("plesiosaurier").
Lull, R. S. 1917 B, 322 (Sauropterygia).
Lydekker, R. 1912 C, 4, 22, 28, 133 (Sauropterygia).
1915 C, 626 ("plesiosaurs").
McGregor, J. H. 1905 A, 295 ("plesiosaurs").
1906 A, 88 (Sauropterygia).
Marsh, O. C. 1899 C, 72 ("plesiosaurs").
Matthew, W. D. 1921 D, 211 ("plesiosaurs").
Merriam, J. C. 1912 B, 221 ("plesiosaurs").
Moodie, R. L. 1908 C, 319 ("plesiosaurs").
1908 D, 446.
1909 G, 363 ("plesiosaurs").
1916 D, 402.
1916 F, 35 ("plesiosaurs").
Noack, T. 1880 A, 76 ("plesiosaurier").
Nopcsa, F. 1922 A, 112, 116 ("sauropterygier").
1923 E, 1048 ("sauropterygians").
1923 H, 1-181, tab. (Sauropterygia).
1926 A, 638, 652 ("sauropterygia").
Osborn, H. F. 1902 H, 750 ("plesiosaurs").
1903 D, 313 ("plesiosaurs"); 453, 456, 465 (Sauropterygia).
1903 H, 453, 454, 456.
1904 H, 104 (Sauropterygia).
1904 N, 308 (Sauropterygia).
1905 C, 295 (Sauropterygia).
1905 N, 238 (Sauropterygia).
Osburn, R. C. 1906 A, 447.
Owen, R. 1839 E, 65 (Plesiosauri).
1840 A, 45.
1866 A, 51, 388 (Sauropterygia).
Parker and Haswell 1897 A, 314, 344 (Sauropterygia).
Perrier, E. 1920 A, 323 ("plésiosauriens").
Pompeckj, J. F. 1925 A, 6, 9, ("plesiosaurier").
Rabl, C. 1903 A, 155 ("plesiosaurier").
Reynolds, S. H. 1897 A, 273, 275, 286, 287, 554 (Sauropterygia).
Ridewood, W. G. 1897 D, 196 (Sauropterygia).
Rogenhofer, A. 1908 A, (42) ("plesiosaurier").
Ryder, J. 1887 A, 346 ("plesiosaurs").
Ryder, J. 1887 B, 438.
Sabatier, A. 1902 A, 100 ("plésiosaures").
Schaffer, F. X. 1912 A, 198 ("plesiosaurier").
Seeley, H. G. 1866 B, 351 ("plesiosaurs").
1882 A, 350.
1887 D, 341.
1887 E, 210.
Sewertzoff, A. N. 1908 A, (Sauropterygia).
Steinmann, J. 1907 A, 438 (Sauropterygia).
1908 A, 235, 237, 238.
1909 A, 86.
1912 A, 49 ("plesiosaurier").
1912 B, 721.
Sterling, S. 1910 C, 667 ("plesiosaurier").
Stromer, E. 1908 B, 170.
1912 A, 99, 126 (Sauropterygia).
Swinnerton and Howes 1901 A, 68.
Symington, J. 1905 A, 109 ("plesiosaurians").
Terra, P. 1911 A, 236 (Plesiosaurii).
Thevenin, A. 1910 A, 59 ("sauroptérygiens").
Thyng, F. W. 1906 A, 63 (Sauropterygia).
Tornier, G. 1913 B, 352, 374 (Sauropterygia).
Versluys, J. 1912 A, 501 ("plesiosaurier").
1912 B, 550, 668, 687 (Sauropterygia).
1919 A, 12 (Sauropterygia).
Vogt, C. 1879 A, 243 ("plésiosaures").
Volz, W. 1902 A, 121 ("sauropterygier").
Watson, D. M. S. 1912 B, 584 (Sauropterygia).
1913 D, 27 ("plesiosaurs").
1917 B, 60 ("plesiosaurs").
1917 C, 178 (Sauropterygia).
1924 A, 885.
Wegner, R. N. 1922 A, 481 (Sauropterygia).
Williston, S. W. 1893 D, 110 ("plesiosaurs").
1902 F, 259 ("plesiosaurs").
1903 C, 980 ("plesiosaurs").
1904 B, 176 (Sauropterygia).
1904 E, 565 ("plesiosaurs").
1905 E, 294 (Sauropterygia).
1907 A, 477, 486 ("plesiosaurs").
1908 E, 726.
1909 A, 396 ("plesiosaurs").
1911 F, 661 (Sauropterygia).
1912 B, 650 (Sauropterygia).
1914 A, 17, 45, 73, 77 (Sauropterygia).
1917 C, 415 (Sauropterygia).
1918 A, 80.
1925 A, *passim* (Sauropterygia).
1925 B, 211, 246, 248 (Sauropterygia).
Woodward, A. S. 1898 E, 330.
1909 A, 327.
1922 C, 32, fig. 29.
Woodward, H. 1904 B, 143.
Zittel and Broili 1911 A, 229 (Sauropterygia).
1923 A, 278, 383 (Sauropterygia).
Zittel and Eastman 1902 A, 171 (Sauropterygia).

Suborder PLESIOSAURIFORMES, new name.

The knowledge of the numerous genera of North American plesiosaurs is so unsatisfactory that the writer is not able to assign them to their families. Three families are recognized and to each is referred the type genus. Most of the other genera follow in their alphabetical order.

Broom, R. 1924 B, 55, 64, fig. 13.
Jaekel, O. 1910 C, 325, 335 (Plesiosauri).
1911 A, 149 (Plesiosauri).
Nopcsa, F. 1923 H, 1-181, tab. (Plesiosauria).
1928 A, 173 (Plesiosauroidea).
Williston, S. W. 1925 A, *passim* (Plesiosauria).
1925 B, *passim* (Plesiosauria).

PLESIOSAURIDÆ Gray.

Gray, J. E. 1825 A, 196.
Hay, O. P. 1902 A, 455.
Abel, O. 1919 A, 489.
1921 A, 222 ("plesiosaurier").
1922 C, 317.
Arldt, T. 1907 D, 674.
Arthaber, G. 1924 A, 447, 449.
Baur, G. 1898 A, 148.
Bogolubow, N. N. 1909 A, 43, 63.
Bonaparte, C. L. 1831 A, 64.
1833 B, 1183.
Cope, E. D. 1891 N, 39.
Fraas, E. 1902 B, 4 ("plesiosauriden").
Gadow, H. 1901 B, 478.
Gregory, W. K. 1904 B, 888 ("plesiosaurs").
Hay, O. P. 1905 H, 296 ("plesiosaurs").
Henderson, J. 1904 A, 466 ("plesiosaurs").
Hilzheimer, M. 1913 A, 515.
Huene, F. 1921 A, 231 ("plesiosauriden").
1922 D, 278 ("plesiosauriden").
Jaekel, O. 1907 B, 39, fig. 24 ("plesiosauriden").
1909 D, 721 ("plesiosaurier").
1912 A, 614 ("plesiosauriden").
Matthew, W. D. 1910 I, 250 ("plesiosaurs").
Moodie, R. L. 1907 A, 90 ("plesiosaurs").
1911 D, 95 ("plesiosaurian").
Nopcsa, F. 1922 A, 112.
1928 A, 173 (Plesiosaurinæ).
Pravoslavlev, P. 1916 A, 332.
Reynolds, S. H. 1897 A, 192, 193, 278.
Tornier, G. 1913 B, 354.
Williston, S. W. 1903 A, 5 ("plesiosaurs").
1925 B, 248.
Zittel and Broili 1911 A, 235.
1923 A, 285.
Zittel, Eastman, etc. 1902 A, 175.

PLESIOSAURUS Conybeare. Type *P. dolichodeirus* Conybeare.

Hay, O. P. 1902 A, 456.
Abel, O. 1908 E, 404.
1908 G, (44).
1909 F, 465.
1919 A, 493, figs. 389, 391, 392, 394.
1920 A, 375.
1921 A, 222, 227, fig. 80.
1925 A, 167, figs. 109-113.
Agassiz, L. 1835 B, 338.
Andrews, C. W. 1911 B, 309, pl. xviii; text-figs. 1-4.
1922 A, 285, pl. xiv; 2 text-figs.
Boas, J. E. V. 1914 C, 280.
Brauer, A. 1908 A, 88, figs. 3-5.
Brauns, D. 1890 A, 187, fig. 9.
Bronn, H. G. 1848 B, 996.
1849 A, 688.
Broom, R. 1899 A, 764.
1921 A, 155, figs. 24, 25.
1922 A, 20, fig. 2.
1924 B, 6, 9.
Carus, V. 1875 A, 412.
Conybeare, W. D. 1824 B, 381.
Cuvier, G. 1825 A, v, 2, 475-487, pls. xxxi-xxxii.
Dames, W. 1883 C, 398.
1898 F, 48, pl. iii.
De la Beche and Conybeare 1921 A, 560, 581.
Dollo, L. 1885 D, 633, 636.
Durand, J. P. 1898 A, 293 ("plésiosaure").
Edinger, T. 1928 A, 380, fig. 1.
Eimer, G. H. T. 1901 A, 261.
Fraas, E. 1910 A, 105.
Gaudry, A. 1896 A, 49.
Gegenbaur, C. 1870 A, 342.
Gervais, P. 1859 A, 478.
Giebel, C. G. 1855 A, 91.
Heilmann, G. 1913 B, 78.
Heilprin, A, 1887 A, 159, 162.
Hoernes, R. 1886 A, 594.
Hoffman, C. K. 1890 B, 1303, pl. lxi.
Huene, F. 1902 A, 39.
Humphry, G. M. 1876 A, 665.
Hutchinson, H. N. 1910 A, 76, pls. v, vi.
Huxley, T. H. 1858 E, 522.
Kesteven, H. 1916 A, 305 (Sauropterygia).
Kingsley, J. S. 1925 A, 150, fig. 159.
Lankester, E. R. 1905 A, 224, fig. 164.
Le Damany, P. 1902 A, 333 ("plésiosaure").
1903 G, 131, fig. 2. ("plésiosaure").
Lönnberg, E. 1910 A, 15.
Lydekker, R. 1912 C, 105.
McGregor, J. H. 1905 A, 295 ("plesiosaurs").
Mantell, G. A. 1844 A, 708.
Matthew, W. D. 1910 I, 250 ("plesiosaur").
Mivart, St. G. 1871 B, 388, fig. 2.
1878 B, 284.
Müller, J. 1832 A, 508.
1841 B, clii.
Nopcsa, F. 1923 B, 357.
1923 H, 64, 66, 195.
Osborn, H. F. 1917 B, 319 ("plesiosaur").
Oswald, F. 1911 A, 410.
Owen, R. 1839 E, 65.
1842 F, 72, 79.
1845 B, 280, pl. lxxiii, fig. 10; pl. lxxiv.
1848 B, 93.
1868 A, 902.
Pictet, F. J. 1853 A, 534.
Rabl, C. 1901 A, 521.
Reynolds, S. H. 1897 A, 28, 37, 192, 193, 272.
Ridewood, W. G. 1897 D, 194.
Rogenhofer, A. 1908 A, (44).
Schlesinger, G. 1909 A, (142).
Schuchert, C. 1918 B, 253.
Seeley, H. G. 1866 B, 352.
1882 A, 353.
Seitz, A. L. L. 1907 A, 274.
Serres, M. 1852 A, 114.
Sollas, W. J. 1916 A, 90.
Spencer, W. B. 1886 A, 233.
Steinmann, G. 1907 A, 439.
Sternberg, C. H. 1917 A, 175 ("plesiosaurs").
Stremme, H. 1909 A, 505.
Tornier, G. 1913 B, 354.
Trouessart, E. L. 1903 A, 306.
Versluys, J. 1909 A, 290.
1912 B, 672.
1919 A, 12, fig. 10.
Watson, D. M. S. 1925 A, 891, figs. 4-6, 10.
Williston, S. W. 1903 A, 7, 23, pl. xviii, fig. 5; pl. xix, figs. 1-3; text-fig. 10.
1925 A, 57, figs. 46, 48.
1925 B, 248.
Williston and Moodie 1917 A, 61.

Wiman, C. 1916 C, 225, fig. 3 ("plesiosaurier").
Wyman, J. 1867 B, 259, 274.
Zittel and Broili 1911 A, 235.
1923 A, 286, figs. 398, 399.
Zittel, Eastman, etc. 1902 A, 175.

Plesiosaurus brevifemur Cope.

Hay, O. P. 1902 A, 456.
Williston, S. W. 1902 D, 241.
1903 A, 6.
1908 C, 736.
Upper Cretaceous (Hornerstown); New Jersey.

Plesiosaurus gouldii Williston.

Hay, O. P. 1902 A, 456.
Sauvage, H. E. 1901 B, 12.
Williston, S. W. 1902 D, 241.
1903 A, 7, 72, pl. xxvii, figs. 2, 3.
1908 C, 736.
Lower Cretaceous (Comanche); Kansas.

Plesiosaurus gulo Cope.

Hay, O. P. 1902 A, 456.
Williston, S. W. 1902 D, 241.
1903 A, 7, text-fig. 7.
1908 A, 736.
Upper Cretaceous (Pierre); Kansas.

Plesiosaurus mexicanus Wieland.

Wieland, G. R. 1910 A, 359, pl. [P. (Polyptichodon)].
Jurassic; Mexico.

Plesiosaurus mudgei Cragin.

Hay, O. P. 1902 A, 456.
Williston, S. W. 1902 D, 241.
1903 A, 7, 44, pl. xxvii, fig. 1; pl. xxix; text-figs. 6, 11.
1908 C, 736.
Lower Cretaceous (Comanche); Kansas.

Plesiosaurus shirleyensis Knight.

Hay, O. P. 1902 A; 456.
Lydekker, R. 1913 A, 16.
Williston, S. W. 1902 D, 241.
1903 A, 7.
1904 A, 341.
1908 C, 736.
Upper Jurassic (Sundance); Wyoming.

Plesiosaurus? vaccinsulensis (Cope).

Cope, E. D. 1876 I, 196 (Champsosaurus).

Unless otherwise indicated the authors, as quoted, call the fossil in question *Champsosaurus vaccinsulensis.*

Hay, O. P. 1902 A, 461.
Bowen, C. F. 1915 A, 128.
Brown, B. 1905 B, 6 ("plesiosaur").
Dollo, L. 1884 C, 155.
Hatcher, J. B. 1905 B, 81.
Osborn, H. F. 1902 I, 12.
Upper Cretaceous (Judith River); Montana.

Plesiosaurus? sp. indet.

Hill, R. T. 1901 A, 328. Lower Cretaceous (Eagle Ford); Texas.
Lambe, L. M. 1914 F, 298.
Lull, R. S. in Gregory, H. E. 1917 A, 74 ("plesiosaur." This genus?). Cretaceous (Mancos shales); Arizona.

POLYCOTYLIDÆ Williston.

Williston, S. W. 1908 E, 727.
Bogolubow, N. N. 1912 A, 175.
Cope, E. D. 1887 G, 564 (Polycotylinæ).
Williston, S. W. 1903 A, 5 ("plesiosaurs").
1908 C, 735.
1925 B, 250.

POLYCOTYLUS Cope. Type *P. latipinnis* Cope.

Hay, O. P. 1902 A, 457.
Abel, O. 1912 F, 81.
1919 A, 503.
1922 C, 320.
Bogolubow, N. N. 1912 A, 174.
Brown, B. 1913 C, 606.
Cope, E. D. 1880 U, 146.
Moodie, R. L. 1911 D, 97, pl. i; text-fig. 7.
1916 D, 405, fig. 3.
Nopcsa, F. 1923 E, 1050, fig. 8.
Watson, D. M. S. 1924 A, 914, 916.
Wieland, G. R. 1906 C, 820.
Williston, S. W. 1902 D, 242.
1903 A, 10.
1905 C, 504.
1906 B, 221, 233, 234.
1908 C, 715, 735.
1914 A, 80, fig. 34.
1925 A, 115, fig. 89.
1925 B, 250.
Williston and Moodie 1917 A, 61.
Zittel and Broili 1911 A, 238.
1923 A, 289.

Polycotylus dolichopus Williston.

Williston, S. W. 1906 B, 235, pl. iii, fig. 2.
1908 C, 736.
Upper Cretaceous (Niobrara); Kansas, Wyoming.

Polycotylus latipinnis Cope.

Hay, O. P. 1902 A, 457.
Moodie, R. L. 1911 D, 98.
Williston, S. W. 1902 D, 242.
1903 A, 10, 67, pl. xxi.
1906 B, 233, pl. iii, fig. 1; text-fig. 5.
1908 C, 715, 736, figs. 6, 13, 14.
Upper Cretaceous (Niobrara); Kansas, Wyoming.

TRINACROMERUM. Type *T. bentonianum* Cragin.

Hay, O. P. 1902 A, 458.
Abel, O. 1912 F, 81.
1919 A, 502.
1922 C, 317.
Andrews, C. W. 1910 A, xv (Dolichorhyncops)
1913 A, 3, 12, 41.
Anonymous 1906 D, 711.
Bogolubow, N. H. 1912 A, 174.
Brown, B. 1913 C, 606.
Linder, H. 1913 A, 405 (Dolichorhynchops).
Moodie, R. L. 1911 D, 97.
Nopcsa, F. 1923 H, 12, 13, 63, 65, 66, 174, pl. ii, fig. 5.
1925 A, 24.
1928 A, 173.
Osburn, R. C. 1906 A, 450 (Dolichorhynchops a syn.).
Steinmann, G. 1907 A, 439, fig. 769 (Dolichorhynchops).
1908 A, 238, fig. 141 (Dolichorhynchops).
Versluys, J. 1912 B, 672 (Trinacromerun, Dolichorhynchops).
Wieland, G. R. 1906 C, 820.
Williston, S. W. 1902 D, 242 (Trinacromerum); 243 (Dolichorhynchops, type *D. osborni.*
1902 F, 262 (Dolichorhynchops).
1903 A, 11 (Trinacromerum); 12, 14 (Dolichorhynchops).
1906 B, 236.
1908 C, 715, 735.
1914 A, 81, figs. 35, 38, 41, 42.
1918 A, 79, fig. 3.
1925 A, 59, 103, 130, 194, figs. 48, 80, 102, 126, 159.
1925 B, 250.
Williston and Moodie 1917 A, 61.
Zittel and Broili 1911 A, 238 (Trinacromerum Dolichorhynchus).
1923 A, 289.
Zittel, Eastman, etc. 1902 A, 178 (Dolichorhynchus).

Trinacromerum anonymum Williston.

Williston, S. W. 1903 A, 20, 21, 44, pl. xxviii; text-fig. 9.
1906 A, 10.
1906 B, 236.
1908 C, 729, 736, figs. 9-12.
Upper Cretaceous (Benton); Kansas.

Trinacromerum bentonianum Cragin.

Hay, O. P. 1902 A, 458.
Abel, O. 1919 A, 499, figs. 393, 399.
1922 C, 318, fig. 275.
Koken and Linder 1913 A, 105.
Williston, S. W. 1902 D, 242.
1903 A, 11, 66.
1908 C, 716, figs. 1-5, 7, 8.
Upper Cretaceous (Benton); Kansas.

Trinacromerum latimanus Williston.

Williston, S. W. 1908 C, 732, 736, fig. 15.
Upper Cretaceous (Benton); Wyoming.

Trinacromerum osborni Williston.

Williston, S. W. 1902 D, 241, pl. xi (Dolichorhynchops).
Abel, O. 1922 C, 317, fig. 274.
Andrews, C. W. 1911 A, 162 (Dolichorhynchops).
1922 A, 297 (Dolichorhynchops).
Linder, H. 1913 A, 346, 402 (Dolichorhynchops).
Osborn, H. F. 1903 G, 701 (Dolichorhynchops).
1917 B, 208, fig.
1918 D, 684 (Dolichorhynchops).
Sternberg, C. H. 1909 C, 111, fig. 20 (Dolichorhynchops).
Watson, D. M. S. 1924 A, 914, fig. 12.
Williston, S. W. 1903 A, 12, 13, pls. i-iv, vi-xvii, xx; text-figs. 3, 5, 8, 12 (Dolichorhynchops).
1907 A, 480.
1908 C, 715 (Dolichorhynchops).
1914 A, 78, figs. 32, 36.
1914 D, 415, fig. 16.
1925 A, 39, 152, figs. 25, 125.
1925 B, 250, fig. 174.
Zittel and Broili 1923 A, 289, fig. 404.
Upper Cretaceous (Niobrara); Kansas.

ELASMOSAURIDÆ Cope.

Hay, O. P. 1902 A, 457.
Andrews, C. W. 1910 A, xiv, 77.
Baur, G. 1898 A, 148.
Gadow, H. 1901 B, 478.
Nopcsa, F. 1923 H, 66, 124, 195.
Nopcsa, F. 1928 A, 173 (Elasmosauridæ, Elasmosaurinæ).
Pravoslaylev, P. A. 1916 A, 328.
Williston, S. W. 1908 E, 727.
1925 A, 138.
1925 B, 250.

ELASMOSAURUS Cope. Type *E. platyurus* Cope.

Hay, O. P. 1902 A, 458.
Abel, O. 1912 F, 81.
1919 A, 500.
1922 C, 317.
Andrews, C. W. 1910 A, xvii.
Anonymous 1906 E, 411.
Bogolubow, N. N. 1912 A, 174.
Brown, B. 1913 C, 606.
Cope, E. D. 1880 U, 146.
Dollo, L. 1885 D, 633.
Dombrowsky, B. 1913 A, 5.
Gadow, H. 1901 B, 478.
Hoffman, C. K. 1890 B, 1305.
Leidy, J. 1870 C, 248.
Matthew, W. D. 1910 I, 247, fig.
Moodie, R. L. 1911 D, 97, pl. i.
Nopcsa, F. 1923 E, 1051.
1923 H, 64-66.
1925 A, 24.
1926 A, 657.

Osborn, H. F. 1917 B, 208, fig.
Perrier, E. 1920 A, 325.
Pompeckj, J. F. 1925 A, 17.
Pravoslavlev, P. A. 1916 A, 327, pl.
1918 A, 1955.
1918 B, 2325.
Pütter, A. 1923 A, 221.
Schuchert, C. 1915 A, 907, fig. 490.
Schuchert and Levene 1927 A, 306.
Seeley, H. G. 1877 A, 541.
Tornier, G. 1913 B, 346, fig. 17.
Watson, D. M. S. 1924 A, 886, 904, seq., fig. 1.
Williston, S. W. 1902 D, 242.
1902 F, 261.
1903 A, 9, 47, 67.
1906 B, 221, 223 ("plesiosaurs").
1914 A, 84, figs. 37, 39, 40.
1925 A, 58, 139, 153, figs. 48, 110, 126.
1925 B, 250.
Williston and Moodie 1917 A, 61.
Zittel and Broili 1911 A, 238.
1923 A, 288, fig. 401.
Zittel, Eastman, etc. 1902 A, 178.

Elasmosaurus intermedius Cope.

Hay, O. P. 1902 A, 458.
Pravoslavlev, P. A. 1918 A, 1963, 1968.
Williston, S. W. 1902 D, 242.
1903 A, 9.
1906 B, 227.
1908 C, 736.
Upper Cretaceous (Pierre); South Dakota.

Elasmosaurus ischiadicus Williston.

Williston, S. W. 1903 A, 10, 72, pls. x, xxvi (Polycotylus).
Abel, O. 1919 A, 502, fig. 397.
1922 C, 317, fig. 273.
Pravoslavlev, P. A. 1916 A, 333.
1918 A, 1962.
1918 B, 2325, 2330.
Williston, S. W. 1906 B, 231, pl. i; pl. ii, fig. 1.
1908 C, 736.
Upper Cretaceous (Niobrara); Kansas.

Elasmosaurus? marshi Williston.

Williston, S. W. 1906 B, 229, pl. ii, fig. 2; text-fig. 4.
Pravoslavlev, P. A. 1916 A, 333 (E. marschi).
1918 A, 1962.
1918 B, 2325, 2330.
Williston, S. W. 1908 C, 736.
Upper Cretaceous (Niobrara); Kansas.

Elasmosaurus nobilis Williston.

Williston, S. W. 1906 B, 232, pl. iv.
Pravoslavlev, P. A. 1916 A, 333.
1918 A, 1962.
1918 B, 2325, 2330.
Williston, S. W. 1908 C, 736.
Upper Cretaceous (Niobrara); Kansas.

Elasmosaurus orientalis Cope.

Hay, O. P. 1902 A, 458.
Pravoslavlev, P. A. 1918 B, 2325.
Williston, S. W. 1902 D, 242.
1903 A, 9.
1906 B, 227.
1908 C, 736.
Upper Cretaceous (Navesink?); New Jersey.

Elasmosaurus platyurus Cope.

Hay, O. P. 1902 A, 458.
Abel, O. 1922 C, 316, fig. 272.
Ballou, W. H. 1897 A, 16, 23, fig.
Baur, G. 1897 D, 52.
Beard, J. C. 1901 B, 267, figure (E. platurus).
Matthew, W. D. 1903 F ("long-necked plesiosaur").
Osborn, H. F. 1904 F, 44 ("Elasmosaurus").
Pravoslavlev, P. A. 1916 A, 327.
1918 A, 1963, 1968, 1971.
1918 B, 2325.
Ruschenberger and Tryon 1879 A, 15, 92.
Watson, D. M. S. 1924 A, 886, fig. 1.
Williston, S. W. 1898 L, 28.
1902 D, 242.
1903 A, 9, pl. xix, fig. 4.
1906 B, 225.
1907 C, 736, fig. 33.
1914 A, 79.
Upper Cretaceous (Pierre); Kansas.

Elasmosaurus serpentinus Cope.

Hay, O. P. 1902 A, 458.
Pravoslavlev, P. A. 1916 A, 328.
1918 A, 1962.
1918 B, 2325, 2330.
Watson, D. M. S. 1924 A, 904, fig. 9.
Williston, S. W. 1902 D, 242.
1903 A, 9.
1906 B, 227.
1908 C, 736.
Williston and Moodie 1917 A, 62.
Upper Cretaceous (Niobrara); Nebraska, Wyoming.

Elasmosaurus snowii Williston.

Williston, S. W. 1906 B, 226, 228, pl. iii, fig. 3; text-figs. 2, 3.
Abel, O. 1922 C, 316, fig. 271.
Pravoslavlev, P. A. 1916 A, 333 (E. snowi).
1918 A, 1962.
1918 B, 2325, 2330.
Wieland, G. R. 1906 C, 820.
Williston, S. W. 1907 A, 481.
1908 C, 736.
Upper Cretaceous (Niobrara); Kansas.

Elasmosaurus sternbergi Williston.

Williston, S. W. 1906 B, 232.
Pravoslavlev, P. A. 1916 A.
1918 A, 1971.
1918 B, 2325, 2330.
Williston, S. W. 1908 C, 736.
Upper Cretaceous (Niobrara); Kansas.

Elasmosaurus sp. indet.

Hay, O. P. 1902 A, 458.
Watson, D. M. S. 1924 A, 906, fig. 10.
Williston, S. W. 1908 C, 736. Upper Cretaceous (Benton); Kansas.

OGMODIRUS Williston and Moodie. Type *O. martinii* Williston and Moodie.

Williston and Moodie 1913 A, 121 (March).
Nopcsa, F. 1923 H, 65 (Leurospondylus a syn.).
1928 A, 173.
Williston, S. W. 1925 B, 250 (Ogmodeirus).

Ogmodirus martinii Williston and Moodie.

Williston and Moodie 1917 A, 61, pls. i-iv; text-figs. 1, 2.
Moodie, R. L. 1916 D, 402, pl. i; text-figs. 1, 2, 4.
Upper Cretaceous (Niobrara); Kansas.

LEUROSPONDYLUS Brown. Type *L. ultimus* Brown.

Brown, B. 1913 C, 605, 606 (December).
Eastman, C. R. 1914 B, 689.
Knowlton, F. H. 1922 A, 38.
Nopcsa, F. 1923 H, 65 (Ogmodirus).
1928 A, 173.
Williston, S. W. 1925 B. 250.
Williston and Moodie 1917 A, 62.
Zittel and Broili 1923 A, 288.

Leurospondylus ultimus Brown.

Brown, B. 1913 C, 606, figs. 1-7.
1914 E, 366.
Lydekker, R. 1914 A, 644.
1915 C, 632.
Sternberg, C. M. 1926 A, 104.
Williston and Moodie 1917 A, 68, fig. 3 ("Leurospondylus").
Upper Cretaceous (Edmonton); Alberta.

BRACHAUCHENIIDÆ Williston.

Williston, S. W. 1908 E, 727.
1925 B, 251.

BRACHAUCHENIUS Williston. Type *B. lucasi* Williston.

Williston, S. W. 1903 A, 12.
Abel, O. 1919 A, 502.
Andrews, C. W. 1910 A, xv.
1913 A, 41.
Bogolubow, N. N. 1912 A, 174.
Brown, B. 1913 B, 606.
Linder, H. 1913 A, 344, 390.
Moodie, R. L. 1908 C, 320.
Nopcsa, F. 1923 E, 1056, fig. 9.
1923 H, 64, 65 (Brachyauchenias).
1928 A, 173 (Brachyauchenias).
Versluys, J. 1912 B, 672.
Williston, S. W. 1907 A, 477, pls. xxxv-xxxvii.
1925 B, 251.
Williston and Moodie 1917 A, 61.
Zittel and Broili 1911 A, 238.
1923 A, 289.

Brachauchenius lucasi Williston.

Williston, S. W. 1903 A, 12, 57, pls. xxiv, xxv.
Andrews, C. W. 1911 A, 162.
Lucas, F. A. 1903 D, 96, pl. xxviii.
Merrill, G. P. 1907 A, 64.
Williston, S. W. 1903 C, 980.
1907 A, 477, pl. xxxiv.
1908 C, 736.
Upper Cretaceous (Benton); Kansas, Texas.

BRIMOSAURUS Leidy. Type *B. grandis* Leidy.

Leidy, J. 1854 B, 72.
Hay, O. P. 1902 A, 458 (Cimoliasaurus, in part).
Williston, S. W. 1902 D, 242.
1903 A, 8.
1925 B, 251.

Brimosaurus grandis Leidy.

Leidy, J. 1854 B, pl. ii, figs. 1-3.
Hay, O. P. 1902 A, 459 (Cimoliasaurus).
Williston, S. W. 1902 D, 242.
1903 A, 8.
1908 C. 736.
Upper Cretaceous (Benton?); Arkansas.

CIMOLIASAURUS Leidy. Type *C. magnus* Leidy.

Hay, O. P. 1902 A, 458.
Abel, O. 1912 F, 666.
Andrews, C. W. 1910 A, xv (Cimoliosaurus).
Bogolubow, N. N. 1912 A, 174.
Brown, B. 1913 C, 606.
Case, E. C. 1898 C, 716.
Eimer, G. H. T. 1901 A, 21, 236.
Frassetto, F. 1915 A, 53, fig. 29.
Gadow, H. 1901 B, 478.
Koken and Linder 1913 A, 114 (Cimoliosaurus).
Linder, H. 1913 A, 404 (Cimoliosaurus).
Lydekker, R. 1912 C, 105 (Cimoliosaurus).
Mehl, M. G. 1912 B, 350 (Cimoliosaurus).
Nopcsa, F. 1923 E, 1051 (Cimoliosaurus).
Osburn, R. C. 1906 A, 450 (Cimoliosaurus).
Schuchert, C. 1918 B, 259.
Sternberg, C. H. 1917 A, 117.
Williston, S. W. 1902 D, 242.
1903 A, 7, pl. xviii, figs. 3, 4.
1904 B, 185, text-fig. 16.
1906 B, 221.
1925 B, 251 (Cimoliosaurus).

Cimoliasaurus laramiensis Knight.

Hay, O. P. 1902 A, 459.
Lydekker, R. 1913 A, 16 (This genus?).
Mehl, M. G. 1912 B, 350 (Tricleidus?).
Williston, S. W. 1902 D, 242.

Williston, S. W. 1903 A, 7.
1905 B, 341.
1908 C, 736.
Upper Jurassic (Sundance); Wyoming.

Cimoliasaurus magnus Leidy.

Hay, O. P. 1902 A, 459.
Ballou, W. H. 1897 A, 23.
Bowen, C. F. 1915 A, 120, 149, 150.
Brown, B, 1914 E, 378.
Hatcher, J. B. 1905 B, 71.
Lambe, L. M. 1902 A, 32.
1904 C, 22, 37, 47.
Mehl, M. G. 1912 B, 350.
Osborn, H. F. 1902 I, 11, 16.
Williston, S. W. 1902 D, 242.
1903 A, 7.
1908 C, 736.
Upper Cretaceous (Greensand); New Jersey: (Belly River); Alberta.

Cimoliasaurus snowii Williston.

Hay, O. P. 1902 A, 459.
Linder, H. 1913 A, 346 (Cimoliosaurus).
Moodie, R. L. 1918 B, 384.
1923 B, 325.
Williston, S. W. 1902 D, 242.
1903 A, 7, 52, pl. v, fig. 5; text-fig. 13.
Upper Cretaceous (Niobrara); Kansas.

Cimoliasaurus sp. indet.

Hay, O. P. 1902 A, 459. Cretaceous; Kansas.
Hill, R. T. 1901 A, 328 (This genus?). Lower Cretaceous (Eagle Ford); Texas.
Sternberg, C. H. 1915 A, 132 (Cimoliosaurus. This genus?). Upper Cretaceous (Judith River); Montana.

DISCOSAURUS Leidy. Type *D. vetustus* Leidy.

Leidy, J. 1851 G, 326.
Hay, O. P. 1902 A, 459 (Cimoliasaurus, in part).
Mehl, M. G. 1912 B, 350.
Williston, S. W. 1902 D, 242.
1903 A, 8.

Discosaurus planior Leidy.

Hay, O. P. 1902 A, 459 (Cimoliasaurus).
Williston, S. W. 1902 D, 242 (Cimoliasaurus).

Williston, S. W. 1903 A, 7 (Cimoliasaurus).
1908 C, 736.
Upper Cretaceous; Mississippi, New Jersey.

Discosaurus vetustus Leidy.

Hay, O. P. 1902 A, 459 (Cimoliasaurus).
Williston, S. W. 1902 D, 242.
1903 A, 8.
Upper Cretaceous; New Jersey, Alabama.

PLESIOSAURIA OF UNCERTAIN FAMILY POSITIONS.

EMBAPHIAS Cope. Type *E. circulosus* Cope.

Hay, O. P. 1902 A, 459.
Williston, S. W. 1902 D, 242.
1903 A, 12.
1925 B, 251.

Embaphias circulosus Cope.

Hay, O. P. 1902 A, 459.
Williston, S. W. 1902 D, 242.
1903 A, 12.
1908 C, 736.
Williston and Moodie 1917 A, 71, pl. v.
Upper Cretaceous (Pierre); South Dakota.

MEGALNEUSAURUS Knight. Type *Cimoliosaurus rex* Knight.

Hay, O. P. 1902 A, 457.
Mehl, M. G. 1912 B, 348.
Williston, S. W. 1902 D, 242.
1903 A, 12.
1925 B, 251.
Zittel and Broili 1911 A, 238.
Zittel, Eastman, etc. 1902 A, 178.

Megalneusaurus rex Knight.

Hay, O. P. 1902 A, 457.
Gilmore, C. W. 1907 B, 193.
Williston, S. W. 1902 D, 242.
1903 A, 12.
1905 B, 341.
1908 C, 736.
Upper Jurassic (Sundance); Wyoming.

MURÆNOSAURUS Seeley. Type *M. leedsii* Seeley.

Seeley, H. G. 1874 B, 197, pl. xxi.
Andrews, C. W. 1896 B, 145, fig.
1909 B, 418.
1910 A, 4, 77.
1911 B, 311.
Broili and Fischer 1917 A, 408, fig. 13.
Lydekker, R. 1889 F, 180, 234 (Syn. of Cimoliosaurus).
Mehl, M. G. 1912 B, 344.
Nopcsa, F. 1928 A, 173.
Pravoslavlev, P. 1916 A, 328.
Seeley, H. G. 1874 A, 448, fig. 13.
1874 D, 197, pl. xxi.
Watson, D. M. S. 1924 A, 901.
Zittel and Broili 1911 A, 236.
1923 A, 287.

Murænosaurus? reedii Mehl.

Mehl, M. G. 1912 B, 344, figs. 1, 3 (This genus?).
Jurassic; Wyoming.

TAPHROSAURUS Cope. Type *T. lockwoodi* Cope.

Hay, O. P. 1902 A, 456 (Plesiosaurus in part).
Williston, S. W. 1903 A, 10.
1925 B, 251.

Taphrosaurus lockwoodi Cope.

Hay, O. P. 1902 A, 456 (Plesiosaurus).
Williston, S. W. 1902 D, 241 (Plesiosaurus).
1903 A, 10.
1908 C, 736.
Upper Cretaceous; New Jersey.

URONAUTES Cope. Type *U. cetiformis* Cope.

Hay, O. P. 1902 A, 457.
Williston, S. W. 1902 D, 242.
1903 A, 11.
1925 B, 252.

Uronautes cetiformis Cope.

Hay, O. P. 1902 A, 457.
Bowen, C. F. 1915 A, 120.
Hatcher, J. B. 1905 B, 72 (Uronaites).
Osborn, H. F. 1902 I, 11.
Williston, S. W. 1902 D, 242.
1903 A, 11.
1908 C, 736.
Upper Cretaceous (Judith River); Montana.

Uronautes sp. indet.

Hay, O. P. 1902 A, 457.
Williston, S. W. 1903 A, 11. Upper Cretaceous (Fox Hills); New Mexico.

OLIGOSIMUS Leidy. Type *O. grandævus* Leidy.

Hay, O. P. 1902 A, 459.
Williston, S. W. 1902 D, 242.
1903 A, 10.
1925 B, 251.

Oligosimus grandævus Leidy.

Hay, O. P. 1902 A, 459.
Merrill, G. P. 1907 A, 74.
Williston, S. W. 1902 D, 242.
1903 A, 10.
1908 C, 736 (O. primævus).
Horizon indefinite; Wyoming.

OROPHOSAURUS Cope. Type *O. pauciporus* Cope.

Hay, O. P. 1902 A, 459.
Williston, S. W. 1902 D, 242.
1903 A, 11.
1925 B, 251.

Orophosaurus pauciporus Cope.

Hay, O. P. 1902 A, 459.
Williston, S. W. 1902 D, 242.
1903 A, 11.
1908 C, 736 (Ophrosaurus).
Upper Cretaceous (Fox Hills); New Mexico.

PANTOSAURUS Marsh. Type *Parasaurus striatus* Marsh.

Hay, O. P. 1902 A, 456.
Williston, S. W. 1902 D, 242.
1903 A, 12.
1925 B, 251.

Pantosaurus striatus Marsh.

Hay, O. P. 1902 A, 456.
Dames, W. 1898 B, 142.
Mehl, M. G. 1912 B, 348.
Williston, S. W. 1902 A, 12.
1902 D, 242.
1905 B, 341.
1906 B, 221.
1908 C, 736.
Upper Jurassic (Sundance); Wyoming.

PIPTOMERUS Cope. Type *P. megalaporus* Cope.

Hay, O. P. 1902 A, 457.
Williston, S. W. 1902 D, 243.
1903 A, 11.
1925 B, 251.

Piptomerus hexagonus Cope.

Hay, O. P. 1902 A, 457.
Williston, S. W. 1902 D, 242.
1903 A, 11.
1908 C, 736.
Upper Cretaceous (Fox Hills); New Mexico.

Piptomerus megaloporus Cope.

Hay, O. P. 1902 A, 457.
Williston, S. W. 1902 D, 242.
1903 A, 11.
1908 C, 736.
Upper Cretaceous (Fox Hills); New Mexico.

Piptomerus microporus Cope.

Hay, O. P. 1902 A, 457.
Williston, S. W. 1902 D, 242.
1903 A, 11.
1908 C, 736.
Upper Cretaceous (Fox Hills); New Mexico.

PIRATOSAURUS Leidy. Type *P. plicatus* Leidy.

Hay, O. P. 1902 A, 456.
Williston, S. W. 1903 A, 10.
1908 C, 735.
1925 B, 250.

Piratosaurus plicatus Leidy.

Hay, O. P. 1902 A, 456.
Merrill, G. P. 1907 A, 75.
Williston, S. W. 1903 A, 10.
1908 C, 736.
Upper Cretaceous; Manitoba.

ISCHYROTHERIUM Leidy. Type *I. antiquum* Leidy.

Hay, O. P. 1902 A, 461.
Palmer, T. S. 1904 A, 352, 948.
Stanton and Hatcher 1905 A, 38.

Ischyrotherium antiquum Leidy.

Hay, O. P. 1902 A, 461.
Bowen, C. F. 1915 A, 120, 149 (Ischyrosaurus).
Cope, E. D. 1874 B, 433 (Ischyrosaurus).
Dollo, L. 1889 G, 674.
Hatcher, J. B. 1905 B, 72 (This species?).
Osborn, H. F. 1902 H, 674 (Ischyrosaurus).
1902 I, 11, 16 (Ischyrosaurus).
Parks, W. A. 1927 A, 10.
Peale, A. C. 1912 A, 754.
Stromer, E. 1910 B, 482.
Upper Cretaceous (Judith River); Montana: (Pierre?); South Dakota?: (Lance); Wyoming.

Order ICHTHYOSAURIA Blainville.

Blainville, H. M. D. 1835 A, 271.
Hay, O. P. 1902 A, 461.
Abel, O. 1901 B, 316 ("ichthyosaurier").
1904 B, 741.
1905 B, 202, 204.
1907 A, 226 (Ichthyopterygia).
1908 G, (42) ("ichthyosaurier").
1909 F, 465 ("ichthyosaurier").
1910 B, (186).
1912 F, 119, 468, 526, 679 ("ichthyosaurier").
1914 C, 341 ("ichthyosaurier").
1919 A, 453.
1920 A, 372.
1921 A, 145, 165, 203, 298 ("ichthyosaurier").
1923 B, 271 (Longipinnati, Latipinnati).
1925 A, 149 ("ichthyosaurier").
Agassiz, L. 1844 D, 137 ("ichthyosaures").
Ahlborn, F. 1896 B, 2.
Andrews, C. W. 1910 A, x, xii (Ichthyosauria); 1 (Ichthyopterygia).
Anonymous 1908 D, 349.
Arldt, T. 1907 D, 660.
Arthaber, G. 1906 A, 307 ("ichthyosaurier").
Bauer, F. 1901 A, 46 (Ichthyopterygia).
Baur, G. 1889 L, 312.
Beddard, F. E. 1900 A, 20.
Boas, J. E. V. 1914 B, 560 ("ichthyosaurier").
1914 C, 280 ("ichthyosauren").
Böker, H. 1927 A, 38 ("ichthyosaurier").
Boule, M. 1902 B, 905 ("ichthyosaures").
Boulenger, G. A. 1904 C, 480.
1917 C, 456 ("ichthyosauriens").
1917 D, 1045 ("ichthyosaures").
Branca, W. 1908 A ("ichthyosauren").
1908 C, 392 ("ichthyosauren").
Brandt, J. F. 1865 A, 17 (Ichthyopterygia).
Brauer, A. 1908 A, 88 ("ichthyosaurier").
Brauns, D. 1890 A, 161, 187, 202.
Broili, F. 1909 A, 295 ("ichthyosaurier").
1916 A, 487 ("ichthyosaurier").
1920 A, 320 ("ichthyosaurier").
Bronn, H. G. 1849 A, 845, seq. ("ichthyosauren").
Broom, R. 1901 A, 188.
1902 D, 554.
1903 I, 554.
Broom, R. 1904 C, 111 ("ichthyosaurs").
1922 A, 17, 22, 25.
1924 B, 64, fig. 13.
1924 C, 75.
Bryant, H. C. 1914 B, 155.
Camp, C. L. 1923 A, 348 ("ichthyosaurs").
Carus, V. 1875 A, 413 (Ichthyopterygia).
Case, E. C. 1898 C, 711.
1905 E, 180 ("ichthyosaurs").
1923 A, 517 (Ichthyopterygia).
Cope, E. D. 1891 N, 35, 40, fig. 19 (Ichthyopterygia).
Cunningham, J. T. 1897 A, 493 ("ichthyosaurians").
Dabelow, A. 1926 A, 95 ("ichthyosaurier").
Day, H. 1915 A, 428.
Döderlein, L. 1900 A, 334.
Dollo, L. 1883 G, 594.
1885 C, 322.
1896 A.
1899 A, 203 ("ichthyosaures").
1904 A, 221 ("ichthyosauriens").
1906 A, 441 ("ichthyosaures").
1907 C, 157 ("ichthyosauriens").
1919 A, 30 ("ichthyosauriens").
Emery, C. 1897 D, 601 ("ichthyosaurier").
Fraas, E. 1905 B, 368.
1913 C, 1 ("ichthyosaurier").
Frech, F. 1906 A, 496 ("ichthyosaurier").
Fuchs, H. 1909 B, 114, 141.
1911 B.
Fürbringer, M. 1902 B, 727 ("ichthyosaurier").
1904 A.
Gadow, H. 1901 B, 478 (Ichthyosauria); 483 (suborder Ichthyosauri).
1902 B, 359.
Gegenbaur, C. 1870 A, 332 ("ichthyosaurier").
Gervais, P. 1852 A, 269 ("ichthyosauriens").
1853 B, 35 ("ichthyosaures").
1859 A, 481 ("ichthysauriens").
Goodrich, E. S. 1916 A, 263.
Greene, J. R. 1861 A, 219, 225 (Ichthyopterygia).
Gregory, W. K. 1917 C, 975 ("ichthyosaurs").
Haeckel, E. 1868 A, 455.
1873 A, 512.

Heilprin, A. 1887 A, 162, 172.
Hilzheimer, M. 1913 A, 513 ("ichthyosaurier").
Hoernes, R. 1886 A, 595 (Ichthyopterygia).
1912 A, 661.
Hoffmann, C. K. 1890 B, 1302 (Ichthyosauri).
Howes, G. B. 1893 C, 586.
Howes and Swinnerton 1901 A, 2, 29.
Hubrecht, A. A. W. 1908 A, 153 (Ichthyopterygia).
Huene, F. 1902 A, 10 ("ichthyopterygier").
1903 A, 441 ("ichthyosaurier").
1910 B, 45 ("ichthyosaurier").
1914 G, 47 ("ichthyosaurier").
1914 J, lxxxix ("ichthyosaurier").
1920 B, 206 ("ichthyosaurier").
1922 B ("ichthyosaurier").
1923 C, 463 (Ichthyopterygia).
1923 D, 265 ("ichthyosaurier").
1925 A, 90 ("ichthyosaurier").
1925 D, 233 ("ichthyosaurier"); 238 (Ichthyopterygia).
1925 F, 234 ("ichthyosaurier").
1926 A, 260, 266.
1926 C, 66, 81.
1926 I, 78 ("ichthyopterygier").
1927 A, 22 ("ichthyosaurier").
Huxley, T. H. 1862 A, xlviii.
1863 F, 529.
Jaekel, O. 1904 A, 27, 34 ("ichthyosaurier").
1905 B, 62 ("ichthyosaurier").
1908 B, 464 ("ichthyosaurier").
1910 C, 325, 334 (Ichthyosauri).
1910 D, 113 (Enaliosauria).
1911 A, 140 (Ichthyosauri).
1912 A, 619 ("ichthyosaurier").
1922 B, 120 ("ichthyosaurier").
1926 F, 62 ("ichthyosaurier").
Kingsley, J. S. 1912 B, 92 ("ichthyosaurs").
1925 A, 253 (Ichthyopterygia).
Knipe, H. R. 1912 A, 79, fig.
Koken, E. 1893 B, 353 ("ichthyosaurier").
1901 B, 221 ("ichthyosaurier").
Larger, R. 1913 A, 721 ("ichthyosaure").
Lavocat, A. 1885 A, 34 ("ichthyosaures").
Leunis and Ludwig 1883 A, 598.
Lucas, F. A. 1902 B, 136 ("ichthyosaurs").
Lull, R. S. 1917 B, 322, 330, 710.
Lydekker, R. 1912 C, 4, 27, 103, 133, 136 (Ichthyopterygia).
1915 C, 626 ("ichthyosaurs").
McGregor, J. H. 1901 A, 272.
1902 A, 27.
1905 A, 295.
1906 A, 88 (Ichthyopterygia).
Matthew, W. D. 1921 D, 211 ("ichthyosaurs").
Mehl, M. G. 1928 B, 19.
Merriam, J. C. 1903 D, 311.
1904 B, 218 (Latipinnati, Longipinnati).
1905 A, 33 ("ichthyosaurs")
1908 B, 659 ("ichthyosaurs").
1908 C, 12, 89.
1912 B, 221 ("ichthyosaurs").
1915 G, 97 ("ichthyosaurs").
Newton, E. T. 1900 A, 645.
Noack, T. 1880 A, 76 ("ichthyosaurier").
Nopcsa, F. 1922 A, 112, 116 ("ichthyosaurier").
1923 B, 357 ("ichthyosaurier").
Nopcsa, F. 1923 H, 1-165 (Ichthyosauria); 113, 121, 127, 171 (Ichthyopterygia).
1926 A, 651.
1928 A, 168.
Osborn, H. F. 1903 D, 313 ("ichthyosaurs").
1903 H, 454, 456, 504.
1904 D, 218.
1904 H, 113.
1904 N, 308.
1905 C, 295.
1905 M, 414 ("ichthyosaurs").
1911 C, 589, pl. i ("ichthyosaurs").
1917 B, 201.
1917 D, 660 ("ichthyosaurs").
Osburn, R. C. 1906 A, 447 ("ichthyosaurs").
Owen, R. 1845 B, 275 (Ichthyosauri).
1868 A, 886.
Palacký, J. 1902 B, 141 ("ichthyosaurier").
Parker and Haswell 1897 A, 314 (Ichthyopterygia).
Perrier, E. 1920 A, 324 ("ichthyoptérygiens").
Pompeckj, J. F. 1925 A, 6, 9 ("ichthyosaurier").
1926 B, 62 ("ichthyosaurier").
Pycraft, W. P. 1909 A, 205.
Rabl, C. 1901 A, 520 ("ichthyosauren").
1903 A, 155 ("ichthyosaurier").
Reynolds, S. H. 1897 A, 195, 272, 275, 276, 277, 286, 287, fig. 32.
Ridewood, W. G. 1897 D, 190 (Ichthyopterygia).
Rogenhofer, A. 1908 A (38) ("ichthyosaurier").
Ryder, J. 1887 A, 346 ("ichthyosaurs").
1887 B, 438.
Sabatier, A. 1902 A, 100 ("ictyosaures").
Schuchert, C. 1915 A, 856.
Seeley, H. G. 1887 D, 338 (Icthyopterygia).
1908 A, 436.
1908 E, 441.
Semon, R. 1901 B, 130 ("ichthyosaurier").
Sewertzoff, A. N. 1908 A.
Steinmann, G. 1900 A, 280.
1907 A, 441.
1908 A, 235-237.
1909 A, 86.
1912 A, 49 ("ichthyosaurier").
1912 B, 718, 721.
Sterling, S. 1910 C, 667 ("ichthyosaurier").
Stromer, E. 1908 B, 170.
1912 A, 103, 126.
Sushkin, P. P. 1925 A, 180.
1927 A, 320 ("ichthyosaurs").
Symington, J. 1905 A, 109.
Terra, P. 1911 A, 235 (Ichthyosaurii).
Thevenin, A. 1910 A, 59 ("ichthyoptérygiens").
Thilenius, G. 1897 A, 484 ("ichthyopterygier").
Tornier, G. 1913 B, 350, 374.
Versluys, J. 1912 A, 501 ("ichthyosaurier").
1912 B, 550, 573, 654, 687.
1919 A, 18, 24.
Vogt, C. 1879 A, 243 ("ichthyosaures").
Watson, D. M. S. 1912 B, 584.
1913 D, 27 ("ichthyosaurs").
1917 C, 178.
Wegner, R. N. 1922 A, 480.
Wilckens, O. 1911 A, 710 ("ichthyosaurier").
Williston, S. W. 1902 F, 263 ("ichthyosaurs").
1904 B, 176.

Williston, S. W. 1908 A, 148.
1909 A, 394 ("ichthyosaurs").
1912 B, 651.
1912 E, 259 ("ichthyosaurs").
1914 A, 17, 45, 107.
1914 D, 391, 399.
1917 C, 416 (Ichthyosauria); 414, 416 (Parapsida, in part).
1918 A, 79.
1925 A, *passim.*
1925 B, 212, 255.
Wiman, C. 1912 A, 235 ("ichthyosaurier").
1921 A, 19.
1922 A, 119 ("ichthyosaurier").
Wiman, C. 1923 B, 272 ("ichthyosaurier").
Woodward, A. S. 1898 E, 330.
1904 D, 144 (Ichthyopterygia).
1909 A, 325 ("ichthyosaurs").
1910 B, 465, 469.
1917 C, 540 ("ichthyosaurs").
1922 C, 37.
1923 A, 31.
Woodward, H. 1904 B, 144 (Ichthyopterygia).
Yakowlew, N. 1903 A, 265 ("ichthyosaurier").
Zittel and Broili 1911 A, 220.
1923 A, 268, 383.
Zittel, Eastman, etc. 1902 A, 165.

MIXOSAURIDÆ Baur.

Baur, G. 1887 D, 839, 840.
Huene, F. 1923 C, 465 (Latipinnatidæ).
Merriam, J. C. 1908 C, 89.
Nopcsa, F. 1928 A, 168 (Mixosaurinæ).
Watson, D. M. S. 1917 C, 178.
Zittel and Broili 1911 A, 228.
1923 A, 276.

MIXOSAURINÆ.

Merriam, J. C. 1908 C, 89.
Nopcsa, F. 1923 H, 27, 121.
Watson, D. M. S. 1917 C, 179.

Mixosaurus Baur. Type *Ichthyosaurus cornalianus* Bassini.

Baur, G. 1887, Ber. Oberrh. Geol. Ver., xx, 19.
Abel, O. 1919 A, 461, 464, 474, 904, figs. 360, 365, 366, 376, 377.
Broom, R. 1921 A, 154.
Huene, F. 1916 A, 3, 36, pls. 1-3; text-figs. 37-54, 87, 88.
1922 B, 70, 71, pl. xx, fig. 6.
1923 D, 267.
Huene, F. 1925 E, 289, figs. 1-3.
Merriam, J. C. 1908 C, *passim,* 94.
1910 B, 389.
1911 C, 318.
Nopcsa, F. 1923 H, 26, 27, 29.
1928 A, 168.
Watson, D. M. S. 1917 C, 179.
Wiman, C. 1912 A, 234.

SHASTASAURIDÆ Merriam.

Merriam, J. C. 1902 A, 87.
1903 A, 252.
Nopcsa, F. 1928 A, 168 (Shastasaurinæ).
Williston, S. W. 1925 B, 256 (Shastosauridæ).
Zittel and Broili 1923 A, 276 (Mixosauridæ).

SHASTASAURINÆ Merriam.

Merriam, J. C. 1908 C, 89.
Nopcsa, F. 1923 H, 27, 121.
Watson, D. M. S. 1917 C, 179.

Phalarodon Merriam, J. C. Type *P. fraasi* Merriam.

Merriam, J. C. 1910 B, 382.
Huene, F. 1916 A, 21.
1922 B, 70, 71 (Mixosaurus).
Merriam, J. C. 1911 C, 325, 326.
Nopcsa, F. 1923 H, 76.
1928 A, 168.
Williston, S. W. 1925 B, 256.
Wiman, C. 1916 A, 66.
1923 B, 272, figs. 1, 2.
Zittel and Broili 1911 A, 228.
1923 A, 277.

Phalarodon fraasi Merriam, J. C.

Merriam, J. C. 1910 B, 382, pl. xl; text-figs. 1-3.
Huene, F. 1916 A, 21, 53, 65, text-fig. 85.
Wiman, C. 1916 A, 66.
Middle Triassic; Nevada.

Cymbospondylus Leidy. Type *C. piscosus* Leidy.

Hay, O. P. 1902 A, 463 (Cymbospondylus, Chonespondylus).
Abel, O. 1919 A, 473.
Andrews, C. W. 1910 A, xi.
Broili, F. 1916 A, 476-494.
Broom, R. 1922 A, 24.
Huene, F. 1914 J, lxxxix.
1916 A, 21, 22, 36, 43, 47, pls. v, vi; text-figs. 37-47, 71, 76-81.
1922 B, 76.
Huene, F. 1923 C, 465, 466.
1923 D, 267.
1925 H, 413.
Merriam, J. C. 1902 A, 64, 104, 107 (Chonespondylus a syn?).
1903 A, 251.
1908 C, 21, 103.
1910 B, 389.
Nopcsa, F. 1923 H, 27, 29, 162.
1926 A, 638.

Nopcsa, F. 1928 A, 168.
Osborn, H. F. 1902 H, 749.
1917 B, 311, figs.
Pompeckj, J. F. 1925 A, 13.
Watson, D. M. S. 1917 C, 179.
Williston, S. W. 1925 A, 103, 112, fig. 80.
1925 B, 256, fig. 178.
Wiman, C. 1910 B, 126 (This genus?).
Zittel and Broili 1911 A, 228.
1923 A, 277.

Cymbospondylus natans Merriam.

Merriam, J. C. 1908 C, 150, pl. x, fig. 1; pl. xiii, fig. 1; text-figs. 44, 152. (This genus?).
Fraas, E. 1911 A, 485.
Huene, F. 1916 A, 64.
Merriam, J. C. 1911 C, 319 (Cymbospondylus?); 326 (Mixosaurus?).
Wiman, C. 1910 B, 129.
1916 A, 66 (This genus?).
Triassic (Middle); Nevada.

Cymbospondylus nevadanus Merriam.

Merriam, J. C. 1908 C, 124, pl. xiii, figs. 2-4; text-figs. 138.
Wiman, C. 1910 B, 129.
Triassic (Middle); Nevada.

Cymbospondylus petrinus Leidy.

Hay, O. P. 1902 A, 463 (C. petrinus, Chonespondylus grandis).
Abel, O. 1925 A, 163, fig. 104.
Broili, F. 1916 A, 483, fig. 2.
Camp, C. L. 1923 A, 348.
Fraas, E. 1911 A, 485.
Huene, F. 1916 A, 45, figs. 74, 89, 90.
1926 C, 85.
Merriam, J. C. 1902 A, 106, pl. xvi, figs. 4, 5.
1905 A, 34.
1908 C, 11, 104, pls. ii-vi; pl. vii, fig. i; pls. viii, ix; pl. x, figs. 2-8; pls. xi, xii; 36 text-figs. (Chonespondylus grandis a syn).
1915 G, 96, pl. x.
Versluys, J. 1919 A, 18, fig. 17.
Williston, S. W. 1918 A, 79, fig. 3.
Wiman, C. 1910 B, 129.
1912 A, 237.
1916 A, 67.
1921 A, 22.
Triassic (Middle); Nevada.

Cymbospondylus piscosus Leidy.

Hay, O. P. 1902 A, 463.
Merriam, J. C. 1902 A, 104, pl. xvi, figs. 1, 2.
1908 C, 123, figs. 136, 137.
Wiman, C. 1910 B, 129.
Triassic (Middle); Nevada.

Cymbospondylus sp. indet.

Abel, O. 1919 A, 475, fig. 378.

MERRIAMIA Boulenger. Type *Leptocheirus zitteli* Merriam.

Boulenger, G. A. 1904 B, 425 (To replace "Leptochirus," preoccupied).
Abel, O. 1912 F, 144.
1919 A, 473.
Huene, F. 1916 A, 47, 52, fig. 84.
1923 C, 466.
1925 H, 417.
Lydekker, R. 1912 C, 134.
Merriam, J. C. 1903 A, 250, 253 (Leptocheirus, type L. zitteli).
1905 C, 23.
1908 C, 12, 129.
Nopcsa, F. 1923 H, 26 (Merriana).
1928 A, 168.
Osburn, R. C. 1906 A, 453.
Watson, D. M. S. 1917 C, 179.
Williston, S. W. 1903 D, 516 (Leptocheirus).
1914 A, 118, fig. 57.
Wiman, C. 1916 A, 71.
Zittel and Broili 1911 A, 228.
1923 A, 277.

Merriamia zitteli (Merriam).

Merriam, J. C. 1903 A, 250, 253, pls. xxi-xxiii (Leptocheirus).
Abel, O. 1912 F, 144, fig. 84.
1919 A, 462, fig. 361.
Lull, R. S. 1917 B, 330, fig. 68.
Merriam, J. C. 1908 C, 129, figs. 8, 79, 92, 99, 140-142.
Nopcsa, F. 1926 A, 653, text-fig. 6 (Merriana).
Upper Triassic (Hosselkus); California.

TORETOCNEMUS Merriam.

Merriam, J. C. 1903 A, 250, 251, 259.
Abel, O. 1912 F, 144.
Broili, F. 1916 A, 491.
Huene, F. 1916 A, 35, 47.
1922 B, 73, 77.
1923 C, 466.
1923 D, 267.
Merriam, J. C. 1903 D, 312.
1905 C, 23.
1908 C, 12, 127.
Nopcsa, F. 1923 H, 26, 27, 29.
1928 A, 168.
Osburn, R. C. 1906 A, 453.
Watson, D. M. S. 1917 C, 179.
Williston, S. W. 1903 D, 516 (Torotecnemus).
1925 B, 256.
Wiman, C. 1916 A, 71.
Zittel and Broili 1911 A, 228.
1923 A, 277.

Toretocnemus californicus Merriam.

Merriam, J. C. 1903 A, 250, 260, pl. xxiv.
Huene, F. 1916 A, 35.
1922 B, 77, pl. xx, figs. 1-4.
Merriam, J. C. 1908 C, 128, pl. xiv, fig. 4; text-figs. 59, 69, 98, 139.
Osburn, R. C. 1906 A, pl. vii, fig. 6.
Upper Triassic (Hosselkus); California.

DELPHINOSAURUS Merriam. Type *Shastasaurus perrini* Merriam.

Merriam, J. C. 1905 C, 24.
Broili, F. 1916 A, 489.
Huene, F. 1916 A, 35, 38, 47.
1925 H, 413.
Merriam, J. C. 1905 A, 34.
1905 G, 404 (Shastasaurus).
1908 C, 11, 131.
Nopcsa, F. 1923 E, 1051.
1923 H, 27.
Watson, D. M. S. 1917 C, 179.
Williston, S. W. 1925 B, 256.
Wiman, C. 1916 A, 71.

Delphinosaurus perrini Merriam.

Merriam, J. C. 1902 A, 69, 89, pls. v-vii (Shastasaurus).
Fraas, E. 1911 A, 485.
Huene, F. 1926 C, 85, fig. 8.
Merriam, J. C. 1903 A, 250 (Shastasaurus).
1905 C, 24, fig. 3.
1908 C, 131, pl. vii, figs. 2, 3; pl. xiv, figs. 1-3; pl. xvii, fig. 2; 15 text-figs.
Osburn, R. C. 1906 A, 461, pl. vii, fig. 3.
Wiman, C. 1910 B, 138.
1921 A, 22.
Triassic (Hosselkus); California.

SHASTASAURUS Merriam. Type *S. pacificus* Merriam.

Merriam, J. C. 1902 A, 64, 69.
Hay, O. P. 1902 A, 463.
Abel, O. 1919 A, 474.
1928 A, 369.
Andrews, C. W. 1910 A, xi, xiii.
Boulenger, G. A. 1904 B, 425.
Broili, F. 1916 A, 477-492.
Gilmore, C. W. 1905 A, 107.
Huene, F. 1902 A, 10.
1914 J, lxxxix.
1916 A, 21, 29, 37, 47, pl. viii; text-figs. 48-51, 53-54.
1922 B, 77, 82.
1922 D, 279.
1923 C, 466.
1925 H, 412.
Lucas, F. A. 1902 B, 138.
McGregor, J. H. 1906 A, 91.
Merriam, J. C. 1902 B, 411.
1903 A, 250, 251.
1903 D, 311.
1905 A, 34.
1908 A, 217.
1908 C, 11, 21, 137.
Nopcsa, F. 1923 E, 1051.
1923 H, 26, 27.
1928 A, 168.
Osborn, H. F. 1902 H, 749.
1905 L, 563 (Shastosaurus).
1905 M, 414.
Osburn, R. C. 1906 A, 461.
Philippi, Frech and Volz 1903 A, 15 (Schastasaurus).
Watson, D. M. S. 1917 C, 179.
Williston, S. W. 1903 A, 36.
1903 D, 515
Wiman, C. 1916 A, 68.
Yakowlew, N. 1903 A, 265 (Schastasaurus).
Zittel and Broili 1911 A, 228.
1923 A, 277.
Zittel, Eastman, etc. 1902 A, 171.

Shastasaurus alexandræ Merriam.

Merriam, J. C. 1902 A, 69, 96, pls. xii, xiii; text-fig. 2.
Andrews, C. W. 1910 A, 47.
Merriam, J. C. 1905 C, 24.
1908 C, 142.
Triassic (Hosselkus); California.

Shastasaurus altispinus Merriam.

Merriam, J. C. 1902 A, 69, 99, pl. xiv, fig. 5; pl. xv.
Huene, F. 1916 A, 32, text-figs. 55, 64.
1925 H, 412 (S. altispinax).
Merriam, J. C. 1908 C, 144, pl. xviii, figs. 1-4; text-figs. 33, 66, 149.
Triassic (Hosselkus); California.

Shastasaurus careyi Merriam.

Merriam, J. C. 1902 A, 69, 98, pl. xvi, figs. 3-4.
1908 C, 145, pl. xv, fig. 2; pl. xviii, figs. 5, 6; text-figs. 29, 95 (This species?).
Triassic (Hosselkus); California.

Shastasaurus osmonti Merriam.

Merriam, J. C. 1902 A, 69, 93, pls. viii-xi.
Andrews, C. W. 1910 A, 47.
Huene, F. 1916 A, 45, figs. 73, 91.
1926 C, 85.
Merriam, J. C. 1905 C, 23, fig. 4.
1908 C, 30, 138, pl. xv, figs. 1, 34; pl. xvii, fig. 1; 12 text-figs.
Osburn, R. C. 1906 A, pl. vii, fig. 4.
Wiman, C. 1910 B, 138.
1916 A, 68, fig. 3.
1921 A, 22.
1923 B, 272.
Triassic (Hosselkus); California.

Shastasaurus pacificus Merriam.

Merriam, J. C. 1902 A, 102, pl. xiv, figs. 1, 2; text-fig. 1.
Hay, O. P. 1902 A, 463.
Huene, F. 1916 A, 31, 47, text-fig. 52.
Merriam, J. C. 1908 C, 143, pl. xvii, fig. 3; text-fig. 148.
Smith, J. P. 1894 A, 608 (Nothosaurus sp.?).
Wiman, C. 1910 B, 125.
1921 A, 22.
Triassic (Hosselkus); California.

OPHTHALMOSAURIDÆ Andrews.

Andrews, C. W. 1910 A, 2.
Hay, O. P. 1902 A, 463 (Baptanodontidæ).
Boulenger, G. A. 1904 B, 425 (Baptanodontidæ).
Brauns, D. 1890 A, 202 (Baptanodontia).
Gilmore, C. W. 1906 B, 333 (Baptanodontidæ).
Merriam, J. C. 1908 C, 10 (Baptanodontidæ): 90 (Baptanodontinæ).
Williston, S. W. 1925 B, 258.

OPHTHALMOSAURUS Seeley. Type *O. icenicus* Seeley.

Unless otherwise indicated the authors quoted use for the American species of this genus the name *Baptanodon.*

Seeley, H. G. 1874 C, 699, pls. xlv, xlvi (Ophthalmosaurus).
Hay, O. P. 1902 A, 463.
Abel, O. 1905 B, 204.
1909 A, 252.
1912 F, 526.
1919 A, 467, 480, figs. 369, 371, 375, 381,
1925 A, 165, fig. 106.
Andrews, C. W. 1907 B, 203 (Ophthalmosaurus).
1910 A, 2, with pls. and text-figs. (Ophthalmosaurus).
1915 A, 145.
Baur, G. 1885 L.
Boule, M. 1891 A, 9 (Sauranodon).
Boulenger, G. A. 1904 B, 424.
Branca, W. 1908 B, 44.
Braus, H. 1906 A, 292.
Broili, F. 1916 A, 490.
Case, E. C. 1898 C, 713.
Dames, W. 1898 B, 141.
Emery, C. 1887 A, 187 (Sauranodon).
Fraas, E. 1913 C, 8 (Baptanodon, Ophthalmosaurus).
Gilmore, C. W. 1902 A, 913 (Baptanodon); 914 (Microdontosaurus, type M. petersonii).
1903 A, 750 (Baptanodon or Ophthalmosaurus).
1905 A, 77, 116.
1906 B, 325.
Heilprin, A. 1887 A, 162 (Sauranodon).
Holland, W. J. 1908 D, 191.
Huene, F. 1903 A, 442.
1911 A, 737.
1922 B, 102.
1922 D, 279.
1922 H, 151.
1923 C, 465, 466.
1923 D, 268.
1925 A, 95.
1925 F, 237.
1927 A, 25.
Knight, W. C. 1903 B, 76.
Koken, E. 1906 A, 311 (Ophthalmosaurus).
Loomis, F. B. 1901 A, 193.
Lull, R. S. 1917 B, 334.
Lydekker, R. 1888 C, 309 (Ophthalmosaurus).
1889 F, 8 (Ophthalmosaurus).
1905 A, 304.
1907 C, 459.
1909 C, 465.
1911 A, 684.
1912 C, 32, 102, 134, 136.
Merriam, J. C. 1903 A, 252.
1905 A, 36.
1905 C, 26.
1905 G, 403.
1912 B, 221.
Merriam and Gilmore 1928 A, 3.
Nicholson and Lydekker 1889 A, 1127 (Ophthalmosaurus, Baptanodon).
Nopcsa, F. 1923 H, 12, 23-26, 160, pl. iv, fig. 4.
1928 A, 168.
Osborn, H. F. 1905 M, 414.
1917 B, 205, fig.
Osburn, R. C. 1906 A, 452.
Peck, F. B. 1904 A, 36, fig. 4.
Pycraft, W. P. 1909 A, 204.
Schuchert, C. 1918 B, 251, 253 (Baptanodon, Ophthalmosaurus).
Seeley, H. G. 1887 D, 339.
Seitz, A. L. L. 1907 A, 291.
Sollas, W. J. 1916 A, 68, 78, 105.
Stromer, E. 1921 A, 56.
Williston, S. W. 1903 A, 36, 69.
1914 A, 113, figs. 53-55.
1918 A, 79, fig. 3.
1925 A, 61, 62, 102, 131, 193, figs. 50, 51, 80, 103, 158.
1925 B, 258.
Wiman, C. 1910 B, 141.
1921 A, 23, 28, fig. 2.
1923 B, 274.
Woodward, A. S. 1898 B, 183 (Ophthalmosaurus).
Zittel, K. A. 1890 A, 473 (Ophthalmosaurus).
Zittel and Broili 1911 A, 228 (Baptanodon); 229 (Ophthalmosaurus).
1923 A, 277.
Zittel, Eastman, etc. 1902 A, 171.

Ophthalmosaurus discus (Marsh).

Hay, O. P. 1902 A, 463 (Baptanodon).
Andrews, C. W. 1910 A, 46 (Baptanodon).
Emery, C. 1887 A, 189, fig. C (Baptanodon).
Gilmore, C. W. 1902 A, 913 (Baptanodon. This species?); 914 (Microdontosaurus petersonii).
1903 A, 750 (Baptanodon).
1905 A, 80, 121, pls. vii-xii; text-figs. 1-22, 25 (Baptanodon).
1907 B, 194, 198 (Baptanodon).
Lambe, L. M. 1907 C, 224 (Baptanodon).
Merriam, J. C. 1908 C, 61, figs. 85, 107 (Baptanodon).
Williston, S. W. 1905 B, 341 (Baptanodon).
Wortman, J. L. 1900 A, 165 ("Baptanodon").
Upper Jurassic (Sundance); Wyoming.

Ophthalmosaurus marshi (Knight).

Knight, W. C. 1903 B, 77, 81, figs. 1-3 (Baptanodon).
Gilmore, C. W. 1905 A, 103, 121, figs. 23, 24, 26 (Baptanodon).
Merriam, J. C. 1905 C, 26, fig. 7 (Baptanodon).
Williston, S. W. 1905 B, 341 (Baptanodon).
Upper Jurassic (Sundance); Wyoming.

Ophthalmosaurus natans (Marsh).

Hay, O. P. 1902 A, 463 (Baptanodon).
Gilmore, C. W. 1903 A, 750 (Baptanodon).
 1905 A, 120 (Baptanodon).
 1906 B, 327, figs. 1-10 (Baptanodon).
 1907 B, 198 (Baptanodon).
Osburn, R. C. 1906 A, 450, pl. vii, fig. 11 (Baptanodon).
Williston, S. W. 1905 B, 341 (Baptanodon).
 Upper Jurassic (Sundance); Wyoming.

Ophthalmosaurus reedi (Gilmore).

Gilmore, C. W. 1907 B, 193, fig. 1 (Baptanodon).
 Upper Jurassic (Sundance); Wyoming.

Ophthalmosaurus robustus (Gilmore).

Gilmore, C. W. 1906 B, 332, pl. xxxviii; text-figs. 12, 13 (Baptanodon).
 1907 B, 198 (Baptanodon).
Merriam and Gilmore 1928 A, 3.
 Upper Jurassic (Sundance); Wyoming.

Ophthalmosaurus sp. indet.

Fraas, E. 1904 B, 283, figs. 3, 4 (Cape Stewart, northeastern Greenland).
 1911 A, 483.
Gilmore, C. W. 1914 C, 210 (Baptanodon). Upper Cretaceous (Benton); Wyoming.
Huene, F. 1922 B, 95 (Campylodon?); 98 (Myopterygius?). Upper Cretaceous (Benton); Wyoming.
Madsen, V. 1904 A, 170 (Ichthyosaurus or Ophthalmosaurus). Eastern Greenland.
Merriam, J. C. 1905 G, 404.
 1905 D, 640 (Baptanodon?). Upper Cretaceous (Benton); Wyoming.
Merriam and Gilmore 1928 A, 1-4, fig. 1 (This genus?). Upper Cretaceous; Oregon.

APATODONOSAURUS Mehl. Type *A. grayi* Mehl.

Mehl, M. G. 1927 A, 233.
 1928 A, 111.

Apatadonosaurus grayi Mehl.

Mehl, M. G. 1928 A, 113, pls. xxx-xxxv; text-figs. 1, 2.
 Jurassic (Sundance); Wyoming.

PROTEOSAURIDÆ Hay.

Hay, O. P. 1902 A, 462.
Abel, O. 1919 A, 453-481 ("ichthyosaurier").
 1922 C, 537 ("ichthyosaurier").
Arldt, T. 1907 D, 660 (Ichthyosauridæ).
Cope, E. D. 1891 N, 41 (Ichthyosauridæ).
Fraas, E. 1902 B, 4 ("ichthyosaurier").
Huene, F. 1923 C, 465 (Longipinnatidæ).
Merriam, J. C. 1903 A, 252 (Ichthyosauridæ).
Merriam, J. C. 1908 C, 10, 89 (Ichthyosauridæ); 90 (Ichthyosaurinæ).
Owen, R. 1845 B, 275, pls. lxxiii, lxxiiia (Ichthyosauri).
Williston, S. W. 1925 B, 256 (Ichthyosauridæ).
Zittel and Broili 1911 A, 227 ("ichthyosaurier").
 1923 A, 277 (Ichthyosauridæ).
Zittel, Eastman, etc. 1902 A, 171 (Ichthyosauridæ).

PROTEOSAURUS Home. Type *Ichthyosaurus platyodon* Conybeare.

Unless otherwise indicated the authors cited employ for this genus the name *Ichthyosaurus*.

Hay, O. P. 1902 A, 462 (Proteosaurus).
Abel, O. 1905 B, 204.
 1907 G, 14, fig. 9.
 1908 A, 482, fig. 9.
 1908 F (232).
 1915 A, 415.
 1920 A, 372, figs. 585, 586 (Stenopterygius).
 1925 A, 149, figs. 92-103; 107, 108.
Andreae, A. 1903 A, 154.
Andrews, C. W. 1924 B, 533, pl. i; text-figs. 1, 2.
Bauer, F. 1901 A, 1.
Bogolubow, N. N. 1909 A, 50, 62, pl. ii.
Boulenger, G. A. 1904 B, 425.
Brauer, A. 1908 A, 89, fig. 2.
Broili, F. 1907 A, 139, pls. xii, xiii.
 1916 A, 476-494.
Bronn, H. G. 1837 A, 499, 506.
 1848 A, 605.
 1849 B, 383.
Broom, R. 1890 A, 411.
 1921 A, 154.
 1922 A, 19, 23, 24.
 1922 B, 460.
Brown, B. 1912 B, 136.
 1924 C, 69.
Carus and Engelmann 1861 A, 594, 1570 (Proteosaurus).
Case, E. C. 1898 C, 612.
Cope, E. D. 1891 N, 41.
Cuvier, G. 1925 A, v, 2, 445-474, pls. xxviii-xxxii (Ichtyosaurus).
Dabelow, A. 1926 A, 97, figs. 2, 3.
De la Beche and Conybeare 1821 A, 559, 563 (Ichthyosaurus); 594 (Proteosaurus).
Dollo, L. 1885 C, 322.
Durand, J. P. 1898 A, 293 ("ichthyosaure").
Etheridge, R. 1898 A, 143.
Fraas, E. 1902 B, 4.
 1911 A, 480.
 1913 C, 2.
Frassetto, F. 1915 A, 49, figs. 28, 30, 31.
Freund, L. 1904 A, 387.
Fuchs, H. 1909 B, 151.
Gadow, H. 1901 B, 481, 483.
Gervais, P. 1859 A, 481.
Giebel, C. G. 1855 A, 90, pl. x.
Gill, T. 1881 A, 376.
Greene, J. R. 1861 A, 222.
Hoernes, R. 1886 A, 596.
Hoffmann, C. K. 1890 B, 1303, pl. lxi.
Huene, F. 1903 A, 442.
 1916 A, 35.
 1922 D, 277, fig.

Huene, F. 1923 C, 465.
  1923 D, 266 (Eurypterygius, Stenopterygius, Eurhinosaurus, Leptopterygius, etc.).
Humphrey, G. M. 1876 A, 665.
Hutchinson, H. N. 1910 A, 61, pls. iii, iv.
Huxley, T. H. 1859 D, 453.
Jaekel, O. 1903 C, 40.
  1903 F, 33, fig. 4.
  1904 A, 26.
  1907 B, 43, figs. 27, 28.
  1911 A, 140, fig. 153.
  1912 A, 619.
Kehrer, F. A. 1896 A, 356.
Kingsley, J. S. 1925 A, 46, 150, 283, fig. 160.
Koken, E. 1893 B, 356.
  1901 B, 221.
  1908 C, 9.
Lankester, E. R. 1905 A, 225, figs. 165-168.
Le Damany, P. 1903 G, 127 ("ichthyosaure").
  1906 A, 49, fig. 6 ("ichthyosaure").
Lönnberg, E. 1910 A, 15.
Lucas, F. A. 1901 F, 483, fig. 2 ("ichthyosaur").
Lydekker, R. 1912 C, 134.
Mantell, G. A. 1844 A, 708.
Merriam, J. C. 1903 A, 252.
  1903 C, 297.
  1903 D, 311.
  1905 C, 23.
  1905 D, 640.
Mivart, St. G. 1871 B, 388, fig. 1.
  1878 B, 309, fig. 12.
Müller, J. 1841 B, cliv.
Nopcsa, F. 1922 A, 112.
  1923 G, 116.
  1923 H, 80.
  1926 A, 637, text fig. 2.
Owen, R. 1840 I, 157.
  1842 F, 69, 77.
Owen, R. 1845 B, 200, 275.
Pütter, A. 1923 A, 221.
Regnault, F. 1903 A, 109 ("ichtyosaure").
Reis, O. 1893 A, 499, 523.
  1894 B, 90.
Reynolds, S. H. 1897 A, 544.
Rogenhofer, A. 1908 A, 39.
Ryder, J. 1887 B, 439.
Seeley, H. G. 1887 E, 195.
  1908 E, 441.
Serres, M. 1852 A, 114.
Sollas, W. J. 1916 A, 63-126, pl. i, figs. 1-22.
Steinmann, G. 1908 A, 238, 246, figs. 140, 153, 154.
  1912 A, 50, figs. 1-5.
Thyng, F. W. 1906 A, 49, figs. G-I.
Tornier, G. 1913 B, 351, figs. 28, 33.
Watson, D. M. S. 1914 B, 95.
Williston, S. W. 1902 L, 918.
  1904 B, 182, text-fig. 17.
  1914 A, 108, 110, 119, figs. 51, 58 (Ichthyosaurus, Proteosaurus).
  1925 A, 112.
  1925 B, 257, fig. 177.
Wiman, C. 1912 A, 236.
Woodward, A. S. 1906 B, 443.
  1917 C, 541, fig. 1.
  1922 C, 37, pl. vi, text-figs. 34-37.
Wyman, J. 1867 B, 249, 259, 276.
Zittel and Broili 1911 A, 228.
  1923 A, 270, figs. 378-384, 387.
Zittel, Eastman, etc. 1902 A, 171.

Proteosaurus sp. indet.

Hay, O. P. 1902 A, 462.
Owen, R. 1855 D, 389, pl. xxxi (Ichthyosaurus).
  Jurassic; Exmouth Island (Lat. 77° 16′ N.; long. 96° W.).

Order OMPHALOSAURIA Huene.

Huene, F. 1923 C, 464.
Nopcsa, F. 1928 A, 168 (Omphalosauroidea).
Williston, S. W. 1925 B, 258.

OMPHALOSAURIDÆ Merriam.

Merriam, J. C. 1906 B, 78.
Huene, F. 1923 C, 466.
Nopcsa, F. 1923 H, 28.
  1928 A, 168.

OMPHALOSAURUS Merriam, J. C. Type *O. nevadanus* Merriam.

Merriam, J. C. 1906 B, 76.
Abel, O. 1928 A, 368.
Huene, F. 1922 B, 70.
  1923 C, 464.
Merriam, J. C. 1911 C, 325.
Merriam and Bryant 1911 A, 329.
Nopcsa, F. 1923 H, 28.
  1928 A, 168.
Williston, S. W. 1925 B, 259.
Wiman, C. 1916 A, 70.

Omphalosaurus nevadanus Merriam, J. C.

Merriam, J. C. 1906 B, 76, pls. viii, ix; and text-fig. 1.
Huene, F. 1922 B, 69, pl. xx, fig. 12.
Merriam, J. C. 1908 C, 18.
  Triassic (Middle); Nevada.

Omphalosaurus sp. indet.

Merriam and Bryant 1911 A, figs. 1, 2 (This genus?). Triassic (Middle); Nevada.

Subclass DIPLOTREMATA, new name.

The term Diapsida, as employed by the authors quoted, coincides only in part with Diplotremata.

Abel, O. 1912 F, 221.
Bittner, F. 1912 A, 2 ("diapsiden").
Boulenger, G. A. 1904 C, 479.
Broom, R. 1904 B, 93.
  1904 C, 111 (Diapsida); 112 (Herpetomorpha).
  1906 C, 437.

Broom, R. 1906 F, 374 ("diapsiden").
1907 A, 37 ("diapsidans").
1908 A, 1049.
1911 A, 919.
1922 A, 17, 25 (Diapsida).
1924 B, 40, 64.
Cope, E. D. 1891 N, 35 (Archosauria).
Döderlein, L. 1900 A, 335 (Archosauria).
Fraas, E. 1905 B, 363 ("diapsiden").
Fuchs, H. 1909 B, 129, 149, 150.
1911 B.
Fürbringer, M. 1900 A.
1904 A, 579 ("archosaurier"); 581 (Diapsida).
Goodrich, E. S. 1916 A, 263.
Gregory, W. K. 1920 A, 214, 234.
Huene, F. 1908 B, 378.
1908 F, 405.
1911 D, 58.
1913 E, 480 ("archosaurier").
Jaekel, O. 1905 B, 61.
1908 A, 140.
1908 B, 464.
1909 A, 211.
1911 A, 131 (Diapsida); 132, 136 (Archæosauria).
Kingsley, J. S. 1925 A, 76 (Diapsida).
McGregor, J. H. 1905 A, 295.
Nopcsa, F. 1928 A, 180.
Osborn, H. F. 1903 F, 276.
1903 H, 452, 455, 457, 458, 459, 466, 506 (Diapsida); 452, 453 (Archosauria).
1904 H, 105.
1904 L, 256.
1904 N, 308.
1905 C, 295.
Sewertzoff, A. N. 1908 A.
Thevenin, A. 1909 A, 1224 ("diapsidés").
Versluys, J. 1912 B, 643 (Archosauria).
1919 A, 5-22 (Diapsida); 6 (Archosauria).
Watson, D. M. S. 1917 C, 179 (Archosauria).
Williston, S. W. 1904 B, 175.
1907 A, 487.
1908 I, 629.
1911 B, 66.
1912 B, 650.
1914 A, 15.
1917 C, 414 (Diapsida).
1925 A, 198 (Diapsida).
1925 B, 278 (Diapsida).
Zittel and Broili 1911 A, 187 (Diapsida).
1923 A, 221 (Diapsida).

Superorder EODITREMATA, new name.

The name Eoditremata is only in part synonymous with that of Diaptosauria, the term used by the authors, as cited.

Broom, R. 1904 C, 111.
1906 B, 600 ("diaptosaurians").
1907 A, 37 ("diaptosaurians").
Case, E. C. 1907 E, 17.
Diener, C. 1909 A, 36.
Fraas, E. 1905 B, 370.
Fuchs, H. 1909 B, 149.
Fürbringer, M. 1904 A, 581.
Huene, F. 1908 B, 378.
Jaekel, O. 1910 B, 526.
1910 C, 331.
1910 D, 113.
1911 A, 131.
Merriam, J. C. 1904 A, 421.
1905 E, 248.
Nopcsa, F. 1923 H, 4, 7, 92, 125, tab.
1928 A, 181.
Osborn, H. F. 1903 H, 456, 466, 467, 499, 504.
1904 H, 107.
1904 L, 256.
1904 N, 308.
1905 C, 295.
1905 N, 237.
Sewertzoff, A. N. 1908 A.
Versluys, J. 1910 B, 245 ("diaptosaurier").
1912 A, 494 ("diaptosaurier").
1912 B, 548, 621, 687.
1919 A, 19.
Williston, S. W. 1912 B, 650.
1917 C, 412, 414.
1925 A, 113, 117.
1925 B, 279.

Order RHYNCHOCEPHALIA Günther.

Hay, O. P. 1902 A, 459.
Abel, O. 1907 A, 225 ("rhynchocephalen").
1919 A, 443.
1920 A, 371.
Anderson, R. J. 1912 D, 251.
Anthony, R. 1913 A, 253 ("rhynchocéphales").
Arldt, T. 1907 C, 677.
1907 D, 679.
1907 E, 205.
1908 A, 570 ("rhynchocephalen").
1912 A, 663, 669.
Baur, G. 1885 L.
1887 G, 694.
1894 B, 349.
Beer, G. R. 1926 A, 312.
Bluntschli, H. 1912 B, 383 ("rhynchocephalen").
Boas, J. E. V. 1914 B, 557 ("rhynchocephalen").
1914 C, 262 ("rhynchocephalen").
Boulenger, G. A. 1893 B, 204, 209.
Boulenger, G. A. 1904 C, 480.
1918 E, 515 ("rhynchocephaliens").
Brauns, D. 1890 A, 149, 152, 163, 187, 202 ("rhynchocephalen").
Braus, H. 1906 A, 259 ("rhynchocephier").
Broili, F. 1908 E, 295 ("rhynchocephalen").
Broom, R. 1901 A, 188.
1902 D, 554.
1903 D, 288.
1903 I, 554.
1910 C, 473.
1912 A, 627 ("rhynchocephalians").
1913 O, 632 ("rhynchocephaloids").
1913 P, 227 ("rhinchocephlians").
1922 A, 17 ("rhynchocephalians").
1924 B, 64, fig. 13.
Carus, V. 1875 A, 435.
Case, E. C. 1898 C, 729.
1910 C, 192.

Case, E. C. 1911 A, 96.
Cope, E. D. 1891 N, 35, 45.
Daiber, M. 1920 A, 371.
Dendey, A. 1899 A, 1 (Sphenodon).
1899 B, 111 (Sphenodon).
1907 A, 298.
Depéret, C. 1907 B ("rhyncocéphaliens").
Diener, C. 1909 A, 36.
Döderlein, L. 1900 A, 334.
Dollo, L. 1883 G, 590.
1889 B, 666 ("rhynchocéphaliens").
1903 B, 138 ("rhynchocéphaliens").
1904 B, 219 ("rhynchocéphaliens").
DuToit, P. J. 1911 A, 417.
Frassetto, F. 1915 A, 30.
Fuchs, H. 1907 B, 413 ("rhynchocephalen").
1908 C, 167 ("rhynchocephalen").
1909 B, 114, 128 ("rhynchocephalen").
1909 D, 26 ("rhynchocephalen").
1910 A, 39 ("rhynchocephalen").
1911 A, 52 ("rhynchocephalen").
1911 B.
1912 B, 82 ("rhynchocephalen").
1927 A, 346.
Fürbringer, M. 1902 B, 727, 732 ("rhynchocephalier").
Gadow, H. 1901 B, 292 (Rhynchocephali).
Gaupp, E. 1895 A, 58 ("rhynchocephalen").
1905 D, 1014 ("rhynchocephalen").
1906 A, 59 ("rhynchocephalen").
1906 B, 775.
1908 A, 182 ("rhynchocephalen").
1908 B ("rhynchocephalen").
1910 B, 358 ("rhynchocephalen").
1910 C.
1911 C, 449.
1911 D, 635 ("rhynchocephalen").
1912 B, 239 ("rhynchocephalen").
1913 A, 93 (Rhynchocephala).
Goodrich, E. S. 1916 A, 263.
Gray, J. E. 1872 B, 29.
Gregory, W. K. 1913 E, 39.
1920 A, 233.
Günther, A. 1886 A, 444.
Hayek, H. 1924 A, 147.
Heilmann, G. 1926 A, 85.
Heilprin, A. 1887 A, 320 (Rhynchocephala).
Hilzheimer, M. 1913 A, 513 ("rhynchocephalen").
Hoernes, R. 1886 A, 603.
Howes, G. B. 1902 A, 525.
Howes and Swinnerton 1901 A.
Huene, F. 1902 A, 6 ("rhynchocephalen").
1910 B, 38 ("rhynchocephalen").
1911 D, 47 ("rhynchocephalier").
1922 E, 24.
1925 D, 238.
1926 I, 81.
1927 E, 325.
Kesteven, H. L. 1919 A, 235 (Rhyncocephalia).
Kingsley, J. S. 1925 A, 45, 160, 283.
Koken, E. 1893 B, 245.
Lakjer, T. 1927 A ("rhynchocephalen").
Lebedinsky, N. G. 1913 A, 767 ("rhynchocephalen").
Lydekker, R. 1912 C, 3, 4, 18.
McGregor, J. H. 1901 A, 272.
1902 A, 27.
1906 A, 79.
Merriam, J. C. 1905 E, 248.
1908 C, 57.
Nopcsa, F. 1922 A, 111, 116 ("rhynchocephalier").
1923 E, 1048.
1923 H, 1-6, 8-10, 71, 82, 85, 92, 104, 110, 125, 128, 148, 171, 174.
1928 A, 181.
Osborn, H. F. 1899 J, 415.
1903 D, 313.
1903 H, 452, 454, 456, 467, 468, 494
1905 C, 295.
1917 B, 193, 201 (Rhyncocephalia).
Palacký, J. 1894 A, 130 ("rhynchocephaliden")
Parker and Haswell 1897 A, 312.
Rabl, C. 1903 A, 175 ("rhynchocephalen").
Reynolds, S. H. 1897 A, 553.
Schauinsland, H. 1903 A, 1, pls. i-xi (Sphenodon).
Seeley, H. G. 1882 A, 366.
1887 D, 338.
Sewertzoff, A. N. 1908 A.
Simpson, G. G. 1926 E, 8, 9 ("rhinchocephalians").
1926 F, 12.
Smith, G. E. 1911 A, 293.
1912 A, 426.
Steiner, H. 1922 A, 341 ("rhynchocephalen").
Stremme, H. 1909 A, 505 ("rhynchocephalen").
Stromer, E. 1912 A, 77.
Sushkin, P. P. 1927 A, 269, 287.
Swinnerton and Howes 1901 A, 1, 70.
Taschenberg, O. 1894 A, 3631.
Thyng, F. W. 1906 A, 51.
Tornier, G. 1913 A, 333.
1913 B, 347.
Versluys, J. 1903 A, 151.
1912 A, 491 ("rhynchocephalier").
1912 B, 621, 687.
Watson, D. M. S. 1917 C, 180.
Williston, S. W. 1904 A, 43.
1904 B, 176.
1914 A, 17, 45, 176.
1917 C, 411.
1918 A, 79.
1925 A, *passim* (Rhynchocephalia, Diaptosauria).
1925 B, 213, 279.
Woodward, A. S. 1904 D, 144.
1907 C, 298.
Woodward, H. 1904 B, 144.
Zittel and Broili 1911 A, 201.
1923 A, 246, 251, 383.
Zittel, Eastman, etc. 1902 A, 145.

Suborder CHAMPSOSAURIFORMES, new name.

Unless otherwise indicated the authors, as cited, employ for this group the name Choristodera.

Hay, O. P. 1902 A, 460.
Broom, R. 1924 B, 64, fig. 13.
Brown, B. 1905 B, 4, 25.
Cope, E. D. 1876 I, 350.
Dollo, L. 1885 C, 320 (Simœdosauria).
Fuchs, H. 1911 B.
Goodrich, E. S. 1916 A, 263.

Jaekel, O. 1911 A, 147 (Champsosauri).
Matthew, W. D. 1914 B, 383, 388.
1921 D, 211.
Merriam, J. C. 1904 A, 421.
1908 C, 57.
Nopcsa, F. 1923 H, 4, 8, 125, 171, tab.
1928 A, 181.
Osborn, H. F. 1903 H, 456, 468, 492.
1904 H, 111.
1905 C, 295.
1905 N, 239.
Parks, W. A. 1927 A, 4.
Simpson, G. G. 1926 F, 12 (Choristodera).
Versluys, J. 1912 B, 624, 684, 687.
Williston, S. W. 1909 A, 399.
1914 A, 17, 45, 178.
1918 A, 81.
1925 A, 10, 95, 104, 110, 121, 128, 143, 161.
1925 B, 213, 283.
Zittel and Broili 1911 A, 204.
1923 A, 250.

CHAMPSOSAURIDÆ Cope.

Hay, O. P. 1902 A, 460.
Abel, O. 1919 A, 449.
Arldt, T. 1907 D, 645.
Boulenger, G. A. 1893 B, 209.
Cope, E. D. 1891 N, 45 (Choristodera, Champsosauridæ).
Gervais, P. 1852 A, 265 ("simosauriens").
1859 A, 473 ("simosauriens").
Howes and Swinnerton 1901 A, 37.
Huene, F. 1914 G, pl. vii (Champsosauria).
1922 D, 278 ("champsosauriden").
1922 E, 24.
Jaekel, O. 1910 C, 333 (Champsosauri).
Matthew, W. D. 1914 B, 387.
1921 D, 211.
Nopcsa, F. 1922 A, 111.
1923 H, 83, 125, 181.
1928 A, 181.
Osborn, H. F. 1903 D, 468.
Palacký, J. 1902 B, 141 ("champsosauriden").
Parks, W. A. 1927 A, 9.
Pictet, F. J. 1853 A, 538 ("simosauriens").
Pomel, A. 1894 A, 1309 ("champsosauriens").
Stromer, E. 1910 B, 481 (Champsosauria).
1912 A, 78.
Tornier, G. 1913 B, 349 (Campsosauridæ).
Zittel and Broili 1911 A, 204.
1923 A, 250.
Zittel, Eastman, etc. 1902 A, 150.

CHAMPSOSAURUS Cope. Type *C. profundus* Cope.

Hay, O. P. 1902 A, 460 (Champsosaurus); 457 (Nothosaurops).
Abel, O. 1919 A, 450.
Baur, G. 1887 G, 694.
1894 B, 350.
Broili, F. 1926 C, 10, 37.
Brown, B. 1905 B, 3.
Case, E. C. 1898 C, 730.
Cope, E. D. 1880 U, 148.
Dollo, L. 1885 C, 315.
1885 D, 617.
1892 E, 158 ("champsosaure").
1893 E, 196 (Syn. of Simœdosaurus).
1909 A, 106.
1919 A, 14.
Douglass, E. 1909 C, 245, 279.
Gaudry, A. 1901 A, 504.
Gilmore, C. W. 1917 A.
1924 A, 68.
1924 D, 27.
Granger, W. 1914 A, 204.
Gregory, W. K. 1920 A, 129, 233.
Harrison, H. S. 1901 B, 205.
Hatcher, J. B. 1905 B, 80.
Hay, O. P. 1910 B, 294, 297.
Howes and Swinnerton 1901 A, 3.
Jaekel, O. 1912 A, 614.
Lakjer, T. 1927 A, 231, 247, fig. 91.
Lambe, L. M. 1917 B, 43.
Lemoine, V. 1886 A, 167 ("champsosaure").
Lydekker, R. 1885 G, 13, 14.
1907 C, 459.
1912 C, 19, 27.
McGregor, J. H. 1906 A, 79.
Malaquin, A. G. 1900 A, 260.
Matthew, W. D. 1915 K, 437.
Nopcsa, F. 1922 A, 112.
1923 E, 1050, figs. 8, 9.
Nopcsa, F. 1923 H, 80-82, 84, 88, 164.
1925 B, 11, pl. ii.
1928 A, 181.
Osborn, H. F. 1902 H, 674.
1902 I, 17.
1903 D, 492.
1910 A, 205.
1914 A, 322.
1917 B, 199, fig.
Parks, W. A. 1927 A, 3.
Peale, A. C. 1912 A, 747, 754.
Reagan, A. B. 1903 A, 82.
Rogers, A. F. 1924 A, 546.
Scott, W. B. 1913 A, 102.
Seeley, H. G. 1886 A, 413, 521.
Seitz, A. L. L. 1907 A, 352.
Sewertzoff, A. N. 1908 A, 253.
Sternberg, C. H. 1915 A, 132.
1917 A, 84, 116.
Stromer, E. 1910 A, 89.
1910 B, 482.
Swinnerton and Howes 1901 A, 3.
Thevenin, A. 1911 A, 9, 14.
Tornier, G. 1913 B; 350 (Campsosaurus).
Versluys, J. 1912 B, 624, fig. d^2.
Williston, S. W. 1902 K, 953.
1903 A, 10 (Nothosaurops).
1914 A, 179, figs. 87-91.
1918 A, 79, fig. 3.
1925 A, 76, 103, 131, figs. 63, 80, 94, 104.
1925 B, 283.
Williston and Case 1913 B, 44.
Woodward, A. S. 1909 A, 327.
1910 B, 467.
Zittel and Broili 1911 A, 204.
1923 A, 250.
Zittel, Eastman, etc. 1902 A, 150.

Champsosaurus albertensis Parks.

Parks, W. A. 1927 A, 3-48, pls. i, ii; text-figs. 1-25.
Upper Cretaceous (Edmonton); Alberta.

Champsosaurus ambulator Brown.

Brown, B. 1905 B, 22, pl. iv, fig. 2; pl. v, figs. 3, 3a, 5, 5a, 6, 6a, 14, 15.
Bowen, C. F. 1915 A, 128.
Brown, B. 1914 E, 358.
Parks, W. A. 1927 A, 9, 44.
Upper Cretaceous (Judith River); Montana: (Edmonton); Alberta.

Champsosaurus annectens Cope.

Hay, O. P. 1902 A, 460.
Bowen, C. F. 1915 A, 128, 148.
Brown, B. 1905 B, 6.
1914 E, 379.
Dollo, L. 1884 C, 155.
Hatcher, J. B. 1905 B, 80.
Lambe, L. M. 1902 A, 45.
1904 C, 22, 37, 49.
Matthew, W. D. 1916 A, 484.
Osborn, H. F. 1902 H, 674.
1902 I, 12, 17.
Parks, W. A. 1927 A, 8, 44.
Upper Cretaceous (Hell Creek); Montana: (Belly River); Alberta.

Champsosaurus australis Cope.

Hay, O. P. 1902 A, 461.
Brown, B. 1905 B, 6.
Gardner, J. H. 1910 A, 731.
Gilmore, C. W. 1920 A, 10.
Matthew, W. D. 1914 B, 383.
Parks, W. A. 1927 A, 5.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Champsosaurus laramiensis Brown.

Hay, O. P. 1902 A, 461.
Bowen, C. F. 1915 A, 128, 149, 150.
Brown, B. 1905 B, 6.
1914 E, 379.
Dollo, L. 1884 C, 155.
Hatcher, J. B. 1905 B, 80.
Matthew, W. D. 1916 A, 484.
Osborn, H. F. 1902 I, 12.
Upper Cretaceous (Judith); Montana.

Champsosaurus brevicollis Cope.

Brown, B. 1905 B, 8, pls. i-iii; pl. iv, figs. 2-3a; pl. v, figs. 1, 2, 4, 7-13.
Abel, O. 1912 F, 42, fig. 10.
1919 A, 450, fig. 350.
Bowen, C. F. 1915 A, 128.
Brown, B. 1907 A, 842.
1914 E, 358.
Leonard, A. G. 1912 A, 3.
Merriam, J. C. 1908 C, 68, fig. 89.
Parks, W. A. 1927 A, 4, 46.
Stromer, E. 1912 A, 79, fig. 81.
Tornier, G. 1913 B, 348, fig. 22 (C. lamariensis).
Zittel and Broili 1923 A, 251, fig. 354.
Upper Cretaceous (Hell Creek); Montana.

Champsosaurus occiduus (Leidy).

Hay, O. P. 1902 A, 457 (Nothosaurops).
Cope, E. D. 1874 B, 433 (Plesiosaurus).
Osborn, H. F. 1902 H, 674 (Nothosaurops).
1902 I, 11, 16 (Nothosaurops).
Williston, S. W. 1902 D, 241 (Plesiosaurus).
1903 A, 10 (Nothosaurops).
1908 C, 735 (Nothosaurops a syn.).
Upper Cretaceous (Lance); South Dakota.

Champsosaurus profundus Cope.

Hay, O. P. 1902 A, 461.
Bowen, C. F. 1915 A, 128.
Brown, B. 1905 B, 6.
1914 E, 379.
Dollo, L. 1884 C, 155.
Hatcher, J. B. 1905 B, 80.
Matthew, W. D. 1916 A, 484.
Osborn, H. F. 1902 I, 12.
Upper Cretaceous (Judith River); Montana.

Champsosaurus puercensis Cope.

Hay, O. P. 1902 A, 461.
Brown, B. 1905 B, 6 (Syn.? C. saponensis).
Gardner, J. H. 1910 A, 731.
Gilmore, C. W. 1920 A, 10.
Parks, W. A. 1927 A, 5.
Reeside, J. B. 1924 A, 42.
Stanton, T. W. 1909 A, 264 (This species?).
Paleocene (Puerco, Torrejon); New Mexico.

Champsosaurus saponensis Cope.

Hay, O. P. 1902 A, 461.
Brown, B. 1905 B, 6.
Gardner, J. H. 1910 A, 731.
Gilmore, C. W. 1920 A, 10.
Matthew, W. D. 1914 B, 383.
Parks, W. A. 1927 A, 5, 44.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco, Torrejon); New Mexico.

Champsosaurus sp. indet.

Bowen, C. F. 1915 A, 128. Upper Cretaceous (Belly River); Alberta: (Lance); Wyoming.
Collier, A. J. 1918 A, 32. Upper Cretaceous (Lance); Montana.
Gidley, J. W. 1915 E, 539. Upper Cretaceous (Fort Union); Montana.
Gilmore, C. W. 1917 A, 4. Upper Cretaceous (Two Medicine); Montana.
1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
1926 J, 28. Upper Cretaceous (Lance); Wyoming.
Hay, O. P. 1903 D, 119.
Knowlton, F. H. 1909 A, 190. Upper Cretaceous (Hell Creek); Montana.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.
1926 A, 104. Upper Cretaceous (Edmonton); Alberta.

Suborder SPHENODONTIFORMES, new name.

Nopcsa, F. 1928 A, 181 (Sphenodontoidea).
Williston, S. W. 1925 B, 281 (Sphenodontia).

SPHENODONTIDÆ Cope.

Cope, E. D. 1871 B, 235.
Abel, O. 1919 A, 444.
Boulenger, G. A. 1889 A, 2 (Hatteriidæ).
Brauns, D. 1890 A, 149, 163, 187, 202 ("sphenodonten").
Cope, E. D. 1864 A, 227 (Hatteriidæ).
Günther, A. C. 1867 A, 624 (Hatteriidæ).
Huene, F. 1922 E, 2.
Huxley, T. H. 1887 A, 2.
Lakjer, T. 1927 A, 172.
Nopcsa, F. 1928 A, 181.
Zittel, K. A. 1890 A, 589.
Zittel and Broili 1911 A, 206.
1923 A, 249.

SPHENODON Gray. Type *Hatteria punctata* Gray.

Hay, O. P. 1902 A, 460.
Allis, E. P. 1919 B, 80 (Hatteria).
Anderson, R. J. 1905 A, 323, fig. 11 (Hatteria).
Anthony, R. 1913 A, 253 (Hatteria).
Bardeleben, K. 1901 A (Hatteria).
Bauer, F. 1901 A, 47.
Baur, G. 1887 H, 52.
Beer, G. R. 1926 A, 312, figs. 81, 83.
Bender, O. 1907 A, 40 (Hatteria).
Bluntschli, H. 1912 B, 383, figs. 20, 21.
Boas, J. E. V. 1914 C, 263, figs. 40, 42, 43, 58.
Bogoljubsky, S. 1914 A, 660.
Brauns, D. 1890 A, 151, 152, 202, fig. 2 (Hatteria).
Broili, F. 1926 B, 172, fig. 4.
1926 C, figs. 2, 6.
Broom, R. 1922 A, 21.
1922 B, 455.
1924 B, 40, fig. 3.
1924 C, 69.
1925 A, 2.
Case, E. C. 1905 C, 9.
1910 C, 196.
Daiber, M. 1920 A, 371, pls. i, ii.
Dendy, A. 1907 A, 287.
Dollo, L. 1884 E, 67 (Hatteria).
1893 D.
1903 A, 759.
Edgeworth, F. H. 1907 A, 529, figs. 25-29.
Fuchs, H. 1907 A, 164, fig. 1 (Hatteria).
1907 B, 419 (Hatteria).
1909 B, 154 (Hatteria).
1909 C, 97 (Hatteria).
1909 D, 9, figs. 1, 2 (Hatteria).
1910 A, 35, fig. 4 (Hatteria).
1910 B, 253 (Hatteria).
1910 C, 481 (Hatteria).
1912 B, 94 (Hatteria).
1927 A, 309, 316, fig. 2 (Hatteria).
Gadow, H. 1901 B, 294, figs. 58-60.
Gaupp, E. 1895 A, 62 (Hatteria).
1899 A, 1078, figs. 13, 15.
1905 D, 1014, fig. 37.
1906 A.
1906 B.
1910 A, 540.
1910 C.
1911 B, 108.
1911 D, 616.
1912 B, 220.
Gelderen, C. 1925 A, 497 (Hatteria).
Gregory, W. K. 1913 B, 243.
1913 E, 14, figs. 12-14.
1926 A, 204.
Gregory and Camp 1918 A, pls. xliii, xlv; text-figs. 1-3.
Harrison, H. S. 1901 A, 145 (Hatteria).
1901 B, 393 (Hatteria).
Hayek, H. 1924 A, 147, pl. i, fig. 5 (Hatteria).
Heilmann, G. 1926 A, 207, figs. 31, 6, 67, 79 (Hatteria, Sphenodon).
Higgins, G. M. 1923 A.
Hoffmann, C. K. 1890 B, 1065, pl. liv (Hatteria, Sphenodon).
Howes and Swinnerton 1901 A.
Huene, F. 1902 A, 7 (Hatteria).
1925 D, 230.
Huxley, T. H. 1869 G, 441, figs. 3, 4, 8.
1869 H, 384.
1887 B, 638, figs. 3, 6.
Iwanzoff, N. 1894 A, 584 (Hatteria).
Jaekel, O. 1902 B, 133.
1903 F, 40.
1906 A, 22, fig. 13.
Kesteven, H. L. 1919 A, 236.
Kingsley, J. S. 1925 A, 43, 161, 173, 174, 247, 264, 281, 283, figs. 50, 172-174, 264, 283, 304, 307.
Lakjer, T. 1927 A, figs. 61-65, 92, 109, 110, 120, 124, 131, 134 (Hatteria).
Lehrs, P. 1911 A, 261, pl.
Leydig, F. 1890 A, 508 (Hatteria).
Lwoff, W. 1884 A, 328 (Hatteria).
Marcus, H. 1921 A, 571 (Hatteria).
Miner, R. W. 1925 A, *passim*, 35 figs.
Noble, G. K. 1922 A, table 1.
Noordenbos, W. 1905 B, 390 (Hatteria).
Nopcsa, F. 1923 H, 79-81, 84, 85, 152, 186, pl. iii, fig. 1.
1928 A, 181.
Nowikoff, M. 1910 A, 122 (Hatteria).
1912 A, 337.
Osborn, H. F. 1903 H, 497.
Parsons, F. G. 1903 A, 315, fig. 1.
Pinkus, F. 1904 A, 150 (Hatteria).
Rabl, C. 1903 A, 157, 168.
Reynolds, S. H. 1897 A, 555, fig. 52.
Romer, A. S. 1922 A, 39.
1922 B, *passim*.
Schauinsland, H. 1899 A, 309, pls. ii, iii (Hatteria).
1906 A.
Schwarz, H. 1908 B, 100.
Seeley, H. G. 1872 B, 36 (Hatteria).
1876 C, 171 (Hatteria).
Siegelbauer, F. 1911 A, 274 (Hatteria).
Simpson, G. G. 1926 F, 12.
Sixta, V. 1901 A, 325.
Sollas, W. J. 1916 A, 89.
Steiner, H. 1922 A, 330, 334, fig. 11.
Sushkin, P. P. 1927 A, 288, figs. 16-18.
Thyng, F. W. 1906 A, 55, figs. M-P.
Versluys, J. 1898 A, 259, fig. 1.
1903 A, 158.
1910 B, 200.

Versluys, J. 1912 A, 496, fig. 5.
1912 B, 549, figs. c, d, h.
Voeltzkow and Döderlein 1901 A, 316 (Hatteria).
Watson, D. M. S. 1916 A.
Wiedersheim, R. 1880 E, 493, fig. 1 (Hatteria).
Williston, S. W. 1903 A, 32, pl. v, fig. 1.
1904 B, 177, text-fig. 6.
1910 A, 270.
1910 F, 600, pl. i, fig. 3.
1914 A, 24, 176, fig. 8.
1925 A, *passim*, figs. 60, 80, 94.
1925 B, 281.
Williston and Case 1913 B, 42.
Woodward, A. S. 1907 C, 295-296.
Wyeth, F. J. 1924 A, 259, pls. xi-xvii, 16 text-figs.
Zittel and Broili 1923 A, 213, fig. 220.

No North American species are yet known.

OPISTHIAS Gilmore. Type *O. rarus* Gilmore.

Gilmore, C. W. 1909 B, 35.
Huene, F. 1910 B, 37.
Nopcsa, F. 1923 H, 79 (Opistias).
1928 A, 181 (Opistias).
Simpson, G. G. 1926 F, 13, 15.
1926 H, 204.
Zittel and Broili 1911 A, 206.
1923 A, 250.

Opisthias rarus Gilmore.

Gilmore, C. W. 1909 B, 35, 39, pl. xi, fig. 1; text-fig. 1.
1927 G, 163.
Huene, F. 1910 B, 36, fig. 3.
Lydekker, R. 1910 F, 668.
Mook, C. C. 1916 A, 148.
Simpson, G. G. 1926 E, 3.
1926 F, 15, fig. 2.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

THERETAIRUS Simpson. Type *T. antiquus* Simpson.

Simpson, G. G. 1926 F, 13.

Theretairus antiquus Simpson.

Simpson, G. G. 1926 F, 13, fig. 1.
Simpson, G. G. 1926 E, 3 (Name; no description.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Order LORICATA Merrem.

Unless otherwise indicated the authors, as cited, use for this group the name *Crocodilia.* Besides being preceded by Merrem's Loricata, it is an ambiguous term, sometimes including only Huxley's Eusuchia; sometimes connoting also the Phytosauridæ and the Aëtosauridæ.

Hay, O. P. 1902 A, 508 (Loricata).
Abel, O. 1907 A, 225 ("crocodilier").
1912 F, 591, 681 ("krokodile").
1919 A, 533.
1920 A, 380.
1922 D, 40.
Ahlborn, F. 1896 B, 8 ("krokodile").
Alix, E. 1874 A, 17 ("crocodiles").
Anderson, R. J. 1912 A, 917 ("crocodiles").
Andreae, A. 1903 A, 150 ("crocodiliden").
Andrews, C. W. 1913 A, 80.
Anonymous 1921 B, 433.
Anthony, R. 1913 A, 254 ("crocodiliens").
Arldt, T. 1907 D, 648.
Arthaber, G. 1906 A, 299, 319 ("crocodilier").
Auer, E. 1909 A, 219 ("krokodile").
Baraldi, G. 1877 A, 8 ("crocodiles").
Bardeleben, K. 1896 A, 114 ("krokodile").
1903 A, 27 ("krokodilier").
1904 A, 109 ("krokodile").
Baur, G. 1889 L, 312.
1894 B, 349.
1897 D, 47.
Beyer, H. 1907 B, 289 ("krokodile").
Bluntschli, H. 1912 B, 384 ("krokodile").
Boas, J. E. V. 1914 B, 562 ("krokodile").
1914 C, 273 ("krokodile").
Bolk, L. 1922 A, 109.
1922 B, 58.
Bonaparte, C. L. 1832 A, 313 (Crocodilei).
Brandt, J. F. 1865 A, 19 ("crocodile").
Brauns, D. 1890 A, 147, 148, 152, 161, 202 (Crocodilina, "krokodile").
Braus, H. 1906 A, 292 ("krokodile").
Bronn, H. G. 1849 A, 833 seq. (Crocodilii).
Broom, R. 1901 A, 188.
1903 C, 179 ("crocodiles").
1906 C, 437 ("crocodiles").
1909 D, 212.
1911 A, 920 ("crocodilians").
1917 A, 977.
Carter, J. T. 1905 A, 143.
Carus, V. 1875 A, 404 (Crocodilina).
Carus and Engelmann 1861 A, 1108-1109, 1675.
Case, E. C. 1898 C, 732.
1923 A, 517.
Cope, E. D. 1885 BB, 68.
1891 N, 35.
Cuvier, G. 1807 A, 8 ("crocodiles").
1808 C, 1 ("crocodiles").
1808 E, 73 ("crocodiles").
1812 A, 125 ("crocodiles").
1825 A, v, 2, 14-173, pls. i-x ("crocodiles").
Dendy, A. 1907 A, 292.
Depéret, C. 1912 A, 703 ("crocodiliens").
Döderlein, L. 1900 A, 329.
Dollo, L. 1883 G, 590.
1884 D, 89 ("crocodiliens").
1889 B, 677 ("crocodiliens").
1914 A, 291 ("crocodiliens").
DuToit, P. J. 1911 A, 417 ("krokodile").
1913 A, 245 ("krokodile").
Edgeworth, F. H. 1907 A, 516.

Fejérváry, G. J. 1921 C, 11.
Fitzinger, L. 1843 A, 35 (Loricata).
Fleischmann, A. 1910 A, 702.
Fraas, E. 1901 B, cxxvi ("krokodile").
1901 C, 409, 411.
1902 B, 69 ("crocodilier").
Frassetto, F. 1915 A ("coccodrilli").
Fuchs, H. 1907 B, 410 ("krokodile").
1908 C, 196.
1909 B, 149.
1909 D, 26 ("krokodile").
1910 A, 40 ("krokodile").
1911 B.
Fürbringer, M. 1888 A, 1620.
1902 B, 727, 731 ("crocodilier").
1904 A.
Gadow, H. 1901 A, 402 ("crocodiles").
1901 B, 431.
Gaupp, E. 1899 A, 1034, 1082 ("krokodile").
1905 D, 1022 ("krokodilier").
1906 B, 782 ("krokodile").
1910 A, 531, 541 ("krokodile").
1911 B, 111.
1911 C, 452.
1912 B, 227 ("krokodile").
1913 A, 44 ("krokodile").
Gegenbaur, C. 1863 A, 464 ("krokodile").
1864 C, 190 ("crocodile").
1871 A, 199 ("crocodile").
Gelderon, C. 1925 A, 495, 506.
Geoffroy St. Hilaire, E. F. 1807 D, 249 ("crocodiles").
Gervais, P. 1852 A, 248 ("crocodiliens").
1859 A, 442 ("crocodiliens").
Gill, T. 1907 A, 493 ("crocodilians").
Goldby, F. 1925 A, 301.
Goodrich, E. S. 1916 A, 262, 264.
Goodsir, J. 1857 A ("crocodiles").
Gray, J. E. 1872 B, 1 (Emydosauri).
Greene, J. R. 1861 A, 219, 226.
Gregory, W. K. 1913 B, 243 ("crocodiles").
1913 E, 3.
1917 C, 975.
1920 A, 212.
Gregory and Camp 1918 A.
Haeckel, E. 1868 A, 453, 455.
1873 A, 512, 531.
Hanson, F. B. 1919 B, 72.
1920 B, 332.
Hase, A. 1913 A ("krokodilier").
Hatschek, B. 1889 B, 117 ("krokodilier").
Heilmann, G. 1914 A, 60.
1926 A, 85.
Heilprin, A. 1887 A, 327, 328 ("crocodiles").
Henshaw, H. W. 1912 A, 318 ("crocodiles").
Hilzheimer, M. 1913 A, 515.
Hoernes, R. 1886 A, 599.
Holland, W. J. 1912 A, 207.
Hollard, H. 1864 C, 368 ("crocodiles").
Howes, G. B. 1891 A, 148.
1894 A, 80.
Howes and Swinnerton 1901 A, 2, 35.
Huene, F. 1908 B, 401.
1908 F, 402.
1911 E, 118 ("krokodile").
1913 F, 468 ("krokodile").
1914 G, 46, pl. vii.
1922 E, 24.
Huene, F. 1925 G, 307 ("krocodile").
1927 E, 326.
Huxley, T. H. 1859 D, 401.
1859 E, 445.
1859 F, 137.
1859 G, 678.
1859 I, 286.
1862 A, xlviii.
1863 F, 477, 529.
1870 F, 538.
1870 H, 492.
1875 E, 66.
1876 F, 173.
1877 A, 1-58.
1879 A, 398.
1887 C, 236 ("crocodiles").
Jaekel, O. 1905 B, 65 ("crocodilier").
1910 C, 338, 340 (Loricati).
1910 E, 229 (Loricata).
1911 A, 162 (Loricati).
1912 A, 610 ("krokodilier").
1915 A, 99 ("crocodile").
Kehrer, F. A. 1896 A, 348 ("crocodilier").
Kesteven, H. 1916 A, 304, 305.
1922 A, 316.
Kingsley, J. S. 1912 B, 94.
Klein, E. E. 1868 A ("crocodilier").
Köstlin, O. 1844 A ("crocodile").
Koken, E. 1893 B, 270, 389, 415 ("crocodiliden")
Laaser, P. 1903 A, 574 ("krokodile").
Lambe, L. M. 1901 B, 182.
Latreille, P. A. 1825 A, 93 (Crocodilei).
Lavocat, A. 1884 A, 1126 ("crocodiles").
1885 A, 29, 37 ("crocodiles").
1889 A, 46 ("crocodiles").
Le Damany, P. 1902 A, 334 ("crocodiliens").
Leunis and Ludwig 1883 A, 539 (Crocodilina).
Lull, R. S. 1917 B, 322.
1924 A, chart.
Lydekker, R. 1887 C, 307.
1912 C, 3, 4, 40, 118.
McGregor, J. H. 1906 A, 83.
Mantell, G. A. 1844 A, 718 ("crocodilians").
Matthew, W. D. 1906 A, 83.
1914 B, 383.
1915 A, 284.
1921 D, 211.
Meckel, J. F. 1825 A ("crocodile").
Menmuir, W. H. 1902 A, 274.
Merriam, J. C. 1912 B, 222.
Mivart, St. G. 1871 B, 380 ("crocodiles").
Mook, C. C. 1918 A, 466.
1921 B, 51.
1921 C, 67.
1921 D, 101.
Müller, J. 1832 A, 507 (Crocodili).
1841 B, cliv ("crocodile").
Nitzsch, C. L. 1822 A, 82 ("krokodile").
Nopsca, F. 1917 A, 204 ("krokodilier").
1922 A, 113 ("crocodilier").
1923 H, 3 (Loricata. See also his Parasuchia, Proterosauri, and Crocodilia).
Oken, L. 1819 A, 1529 ("crocodile").
Osborn, H. F. 1903 D, 313.
1903 H, 454, 456, 504.
1904 H, 113.
1904 N, 308.
1905 C, 295.

Osborn, H. F. 1905 N, 239.
1912 A, 80, 125.
1917 B, 311.
1925 F, 962.
Owen, R. 1842 F, 70 ("crocodiles").
1845 B, 285 ("crocodilians").
1868 A, 874, 875.
1879 D, 148.
Palacký, J. 1894 A, 129 ("krokodile").
Paramore, R. H. 1910 A, 1398 ("crocodiles").
Parker, W. K. 1878 C, 214 ("crocodiles").
1879 C, 336.
1888 C, 397 ("crocodiles").
Parker and Haswell 1897 A, 313.
Parsons, F. G. 1903 A, 316 ("crocodiles").
Peters, W. 1867 A, 726 ("crocodile").
1868 A, 592 ("crocodilen").
1868 B, 388 ("crocodiles").
Petronievics, B. 1919 A, 414 ("crocodiliens").
Philippi, Frech and Volz 1903 A, 18 ("krokodile").
Plieninger, F. 1901 A, 88 ("crocodilier").
1906 A, 406 ("krokodilier").
Pompeckj, J. F. 1925 A, 10 ("krokodilier").
Röse, C. 1892 G, 129 ("crocodile").
Romer, A. S. 1923 A, 143.
1923 B, 533.
1923 C, 605, 607.
Sabatier, A. 1897 A, 805 ("crocodiliens").
1897 B, 933.
1902 A, 99 ("crocodiliens").
Schlosser, M. 1898 D, 120 ("krokodile").
1903 G, 145.
Schmidt, W. J. 1914 B, 643 ("crocodile").
Schöne, G. 1902 A, 17 ("krokodile").
Seeley, H. G. 1872 A, 275 ("crocodiles").
1872 B, 36 ("crocodiles").
1878 B, 428 ("crocodiles").
1882 A, 366.
1887 D, 341.
1887 E, 191.
1888 I, 235.
Seemann, G. 1926 A, 107 ("krokodile").
Sewertzoff, A. N. 1908 A.
Shore, T. W. 1887 A, 366.
Simpson, G. G. 1926 E, 6 ("crocodiles").
Sixta, V. 1900 B, 340 ("krokodile").
Sonies, F. 1907 A, 406 ("crocodile").
Stannius, H. 1856 A, 8, seq. (Crocodila).
Stehli, G. 1910 A, 775 ("krokodile").
Steiner, H. 1922 A, 330, 339.
Steinmann, G. 1907 A, 429.
1908 A, 213 ("krokodile").
1910 A, 99.
1912 B, 718, 731.
Strecker, C. 1887 A, 304 ("krokodile").
Stromer, E. 1912 A, 80, 125.
Taschenberg, O. 1894 A, 3632.
Terra, P. 1911 A, 237.
Tims, H. W. M. 1903 A, 133.
Tornier, G. 1909 A, 195 ("krokodile").
1909 C, 547.
1913 A, 336.
1913 B, 359, 374.
Troxell, E. L. 1925 D, 605 ("crocodiles").
Vallois, H. V. 1921 A, 973 ("crocodiliens").
Van den Broeck, E. 1900 A, 88, 107 ("crocodiliens").
Versluys, J. 1903 A, 168 ("crocodilier").
1912 A, 491 ("crocodilier").
1912 B, 649, 687.
1919 A, 7.
Virchow, H. 1914 B, 106 ("krokodile").
Voeltzkow, A. 1899 A.
Voeltzkow and Döderlein 1901 A, 316 ("krokodile").
Wagner, L. 1834 A ("krokodile").
Wallace, A. R. 1876 A, I, 100; II, 405-407.
Watson, D. M. S. 1916 C, 611 ("crocodiles").
1917 A, 984 ("crocodiles").
Werner, F. 1904 A, 339 ("krokodile").
Williston, S. W. 1906 A.
1911 F, 661.
1912 E, 260.
1914 A, 18, 45, 194.
1916 B, 193.
1917 C, 412.
1918 A, 79, 80.
1925 A, *passim*.
1925 B, 213, 287 (Crocodilia, Loricata, Parasuchia).
Woodward, A. S. 1922 C, 10.
Woodward, H. 1904 B, 149.
Wright, W. 1909 A, 674.
Ziegler, H. E. 1901 A, 232 ("krokodile").
Zittel and Broili 1911 A, 261.
1923 A, 318.
Zittel, Eastman, etc. 1902 A, 208.

Order PHYTOSAUROMORPHI, new name.

Unless otherwise indicated, the authors, as cited, employ for this order the name Parasuchia.

Boulenger, G. A. 1903 A, 357 (Thecodontia).
1904 C, 480 (Thecodontia).
Broom, R. 1914 H, 1077 (Thecodontia).
Fuchs, H. 1909 B, 130, 149.
Gadow, H. 1901 B, 432 (Crocodilia, in part).
Huene, F. 1902 A, 54, 71.
1908 B, 388.
1908 E, 380 ("parasuchier").
1911 E, 67, 117 ("parasuchier").
1914 G, 47, 49, pl. vii ("parasuchier").
1922 E, 22 (Thecodontia).
1922 F, 408 (Thecodontia).
1922 I, xlv (Thecodontia).
1926 I, 52, 85, 102 (Thecodontia).
Huene, F. 1927 E, 320 (Thecodontia).
Lull, R. S. 1910 A, 4.
Lydekker, R. 1907 C, 458.
McGregor, J. H. 1904 A, 255.
1906 A, 31, 91.
Nopcsa, F. 1923 H, 89-180 ("thecodontier"); 125 (Thecodontia).
1928 A, 181 (Thecodontia; not of Owen).
Osborn, H. F. 1903 H, 454, 456, 504 (Phytosauria).
1904 H, 112.
1904 N, 308.
1905 C, 295.
Steiner, H. 1922 A, 339 (Thecodontia).
Stromer, E. 1912 A, 83.
Watson, D. M. S. 1916 C, 611 ("thecodonts").
1917 C, 179 (Thecodontia).

Williston, S. W. 1914 A, 18, 186.
1925 A, 114.
1925 B, 213, 284.
Zittel and Broili 1911 A, 251.
1923 A, 314.

Suborder AËTOSAURIFORMES, new name.

Unless otherwise indicated the authors, as cited, use for this group the name Pseudosuchia.

Hay, O. P. 1902 A, 511 (Aëtosauria).
Abel, O. 1919 A, 524.
1920 A, 379.
1926 B, 38 ("aëtosaurier").
Brauns, D. 1890 A, 160, fig. 4 (Aëtosaurus).
Broom, R. 1901 A, 188 (Aëtosauria).
1913 O, 629.
1924 B, 65.
Cope, E. D. 1891 N, 45.
Fraas, E. 1911 B, 30 ("aëtosaurier").
Fuchs, H. 1909 B, 149 (Aëtosauria).
Gadow, H. 1901 B, 432.
Gilmore, C. W. 1926 B, 328, 338 (Aëtosauria).
Gregory, W. K. 1915 E, 448 ("aëtosaurs").
Heilmann, G. 1926 A, 207, figs. 5, 81, 133.
Huene, F. 1908 B, 388, 395.
1911 D, 28 ("pseudosuchier").
1911 E, 116.
1914 A, 146.
1914 G, 4, 20, pl. vii.
1920 A, 160.
1921 D, 391, 394, 395.
1922 E, 22.
1922 F, 408.
1922 I, xlv ("pseudosuchier").
1925 G, 316 ("pseudosuchier").
1926 B, 104.
1926 I, 52, 64, 85, 102 ("pseudosuchier").
1927 E, 320 (Pseudosuchia).
Jaekel, O. 1910 C, 340 (Ætosauri).
1911 A, 164 (Ætosauri).
Lull, R. S. 1915 A, 174 (Aëtosauria).
Lull, R. S. 1924 A, chart.
Lydekker, R. 1907 C, 458 (Aëtosauria).
McGregor, J. H. 1904 A, 255 (Aëtosauria).
1906 A, 81, 91 (Aëtosauria).
Marsh, O. C. 1884 A, 167 (Aëtosauria).
Moodie, R. L. 1909 G, 363 (Ætosauria).
Nopcsa, F. 1923 H, 8, 10, tab. (Ætosauria); 125 (Aëtosauridæ, Aëtosaurinæ; Parasuchia, in part).
1928 A, 181 (Parasuchoidea, in part).
Osborn, H. F. 1903 H, 456 ("aëtosaurs").
1904 H, 112 (Ætosauria).
Stehli, G. 1910 A, 790 (Pseudosuchia).
Steiner, H. 1922 A, 339 (Pseudosuchia, Thecodontia).
Steinmann, G. 1907 A, 433.
Stromer, E. 1912 A, 82 (Aëtosauria).
Watson, D. M. S. 1916 C, 611 (Thecodontia, in part).
1917 C, 179 (Thecodontia, in part).
Wegner, R. N. 1922 A, 480.
Williston, S. W. 1909 A, 396 ("aëtosaurs").
1914 A, 18, 45, 187.
1917 C, 412.
1925 A, 11, 18, 19, 21, 32, 77, 95, 100, 114, 119, 178.
1925 B, 284.
Zittel and Broili 1923 A, 316.
Zittel, Eastman, etc. 1902 A, 211.

Pseudosuchia is long antedated by Aëtosauria of Marsh. Owen's Thecodontia did not include the Aëtosauria; the type genera were stated to be *Thecodontosaurus*, *Palæosaurus*, and *Cladyodon*. All these are theropodous dinosaurs.

AËTOSAURIDÆ Lydekker.

Lydekker, R. in Nicholson and Lydekker 1889 A, 1112.
Hay, O. P. 1902 A, 511.
Abel, O. 1912 F, 563 ("aëtosauriden").
1919 A, 529.
Cope, E. D. 1889 R, 866.
Fraas, E. 1907 B, 101 (Aëtosaurus).
Hay, O. P. 1928 A, 5 (Aëtosaurus).
Huene, F. 1915 A, 490 (Typothoracidæ).
1920 A, 161.
1920 G, 465 ("pseudosuchier").
1921 D, 330, pl. i, figs. 1-8; text-figs. 2-7 (Aëtosaurus).
Huene, F. 1922 E, 22.
1922 H, 84 (Aëtosaurus).
Jaekel, O. 1910 C, 340.
Lull, R. S. 1917 D, 110.
Newton, E. T. 1894 A, 599 (Aëtosaurus).
Nopcsa, F. 1923 H, 125 (With subfamilies Aëtosaurinæ, Stegominæ).
1928 A, 182.
Stehli, G. 1910 A, 790, figs. 18, 19 (Aëtosaurus).
Tornier, G. 1913 B, 358 (Aëtosaurus).
Watson, D. M. S. 1917 C, 180.
Zittel and Broili 1911 A, 260.

TYPOTHORAX Cope. Type *T. coccinarum* Cope.

Hay, O. P. 1902 A, 511.
Branson, E. B. 1905 B, 568.
Lydekker, R. 1912 C, 121.
Nopcsa, F. 1928 A, 182.
Zittel and Broili 1911 A, 260.
1923 A, 317.

Typothorax coccinarum Cope.

Hay, O. P. 1902 A, 511.
Cross, W. 1907 A, 640 ("Typothorax").
Cross and Howe 1905 A, 494.
Gregory and Camp 1918 A, 531, text-fig. 11.
Huene, F. 1915 A, 485, figs. 1-10.
Merrill, G. P. 1907 A, 81.

Triassic (Dolores); New Mexico.

STEGOMUS Marsh. Type *S. arcuatus* Marsh.

Hay, O. P. 1902 A, 511.
Abel, O. 1919 A, 532.
Emerson and Loomis 1904 A, 377.
Huene, F. 1902 A, 60.
  1908 B, 392.
  1914 G, 17, 35.
  1920 A, 161.
Lull, R. S. 1904 B, 381.
  1904 D, 147, figs.
  1910 A, 4.
  1912 D, 416.
Nopcsa, F. 1922 B, 174.
  1923 H, 86, 87 (Stegomus); 125 (Stegominæ).
Osborn, H. F. 1917 B, 211, fig.
Steiner, H. 1922 A, 351.
Watson, D. M. S. 1917 C, 180.
Williston, S. W. 1925 B, 285.

Stegomus arcuatus Marsh.

Hay, O. P. 1902 A, 511.
Abel, O. 1926 B, 19.
Emerson and Loomis 1904 A, 379.
Heilmann, G. 1916 A, 111.
Huene, F. 1914 G, 17, 35, fig. 49.
  1915 A, 490, 492.
  1920 G, 485, 487.
  1922 E, 23.
  1922 F, 409, 410, tab.
  1922 H, 84, 152.
  1926 E, 5, 6.
Lull, R. S. 1904 B, 382.
  1912 D, 410, 412.
  1915 A, 43, 79, 99, pl. vii.
  1917 D, 110, 111.
Rice and Gregory 1906 A, 174.
Schuchert, C. 1910 A, 438, 579.
  Triassic (Newark); Connecticut.

STEGOMOSUCHIDÆ Huene.

Huene, F. 1922 E, 22.
Gilmore, C. W. 1926 B, 326, 340.

Huene, F. 1922 F, 409.

STEGOMOSUCHUS Huene. Type *Stegomus longipes* Emerson and Loomis.

Huene, F. 1922 E, 23.
  1922 F, 409.
  1925 G, 317.
Nopcsa, F. 1928 A, 182.

Stegomosuchus longipes (Emerson and Loomis).

Emerson and Loomis 1904 A, 377, pl. xxii (Stegomus).
Gilmore, C. W. 1926 B, 325, fig. 4.
  1928 F, 7.
Heilmann, G. 1916 A, 110, figs. 200, 201 (Stegomus).
Huene, F. 1914 G, 17, 44, text-figs. 42, 45-48 (Stegomus).
Huene, F. 1915 A, 490 (Stegomus).
  1920 G, 485, 487 (Stegomus).
  1922 E, 22, 23.
  1922 F, 409.
  1922 H, 153 (Stegomus).
  1926 E, 6.
Lull, R. S. 1904 B, 381 (Stegomus).
  1905 C, 299 (Stegomus).
  1912 D, 411, 412, 413, fig. 1 (Stegomus).
  1915 A, 102, 175, pls. ii, viii; text-figs. 10, 11 (Stegomus).
  1917 D, 110, 111, pl. iii, fig. 2 (Stegomus).
Lydekker, R. 1905 B, 278 (Stegomus).
Rice and Gregory 1906 A, 174 (Stegomus).
Schuchert, C. 1910 A, 438 (Stegomus).
  Triassic (Newark); Massachusetts.

HOPLOSUCHUS Gilmore. Type *H. kayi* Gilmore.

Gilmore, C. W. 1926 B, 326.

Hoplosuchus kayi Gilmore.

Gilmore, C. W. 1926 B, 326, pls. xxvii-xxix; text-figs. 1-3.
  Upper Jurassic or Lower Cretaceous (Morrison); Utah.

Suborder DESMATOSUCHIFORMES, new name.

Case, E. C. 1920 B, 529 (Desmatosuchia).
  1922 A, 445 (Desmatosuchia).
  1922 B, 26 (Desmatosuchia).
Huene, F. 1921 E, xlv ("desmatosuchier").
Nopcsa, F. 1928 A, 182 (Pelycosimia).
Williston, S. W. 1925 B, 286 (Desmatosuchia).
Zittel and Broili 1923 A, 318 (Desmatosuchia).

DESMATOSUCHIDÆ Case.

Case, E. C. 1920 B, 529.
Huene, F. 1922 E, 23.
  1922 F, 410.
  1922 H, 158.
Huene, F. 1922 I, xlv ("desmatosuchiden").
Nopcsa, F. 1923 H, 91, 125.
  1928 A, 182.

DESMATOSUCHUS Case. Type *D. spurensis* Case.

Case, E. C. 1920 B, 529.
1921 A, 133.
1921 C, 445.
1922 B, 26.
Huene, F. 1922 E, 23.
1922 F, 410.
1922 H, 147.
1926 E, 3, 4, 8.
1926 I, 59, 61, 76.
Mehl, M. G. 1928 B, 16.
Nopcsa, F. 1923 H, 86, 89, 90, 91.
1928 A, 182.
Williston, S. W. 1925 B, 286.
Zittel and Broili 1923 A, 318.

Desmatosuchus spurensis Case.

Case, E. C. 1920 B, 529, figs. 1-4.
1921 A, 133, pls. i-iii.
1922 B, 26, pls. v-x; text-figs. 7-10.
1928 A, 163 ("Desmatosuchus").
Huene, F. 1922 F, tab.
1922 H, 147, 149, figs. 152, 153.
1926 E, 5.
Zittel and Broili 1923 A, 318, fig. 429.
Triassic (Dockum); Texas.

ACOMPSOSAURUS Mehl. Type *A. wingatensis* Mehl.

Mehl, M. G. 1915 C, 735.
Branson and Mehl 1928 A, 326.
Huene, F. 1922 F, 411.
1922 H, 150.
1926 E, 3.
Mehl, M. G. 1916 A, 39.
Nopcsa, F. 1923 H, 89, 90.
A genus of uncertain ordinal position.

Acompsosaurus wingatensis Mehl.

Mehl, M. G. 1915 C, 735.
Case, E. C. 1922 B, 74.
Huene, F. 1922 H, 148.
1926 E, 4.
Mehl and Schwartz 1916 A, 33, pl. iii; text-figs. 12-14.
Triassic (Wingate); New Mexico.

Suborder PHYTOSAURIFORMES, new name.

Unless otherwise indicated, the authors, as cited, use for this group the name Parasuchia.

Hay, O. P. 1902 A, 509.
Abel, O. 1919 A, 513.
1920 A, 378.
1922 D, 26 ("parasuchier").
Arldt, T. 1907 D, 671.
Auer, E. 1909 A, 286.
Brauns, D. 1890 A, 202 (Belodontia).
Broom, R. 1903 D, 287.
1904 C, 111 ("phytosaurians").
1906 B, 599 (Phytosauria).
1913 O, 629.
1924 B, 64, fig. 13 (Phytosauria).
Case, E. C. 1922 B, 32, 33, 48, 55 (Parasuchia); 35, 51 (Phytosauria).
Cope, E. D. 1891 N, 45.
Dollo, L. 1907 D, 85 ("parasuchiens").
Eastman, C. R. 1917 B, 656 ("phytosaurs").
Fraas, E. 1902 B, 69.
1905 B, 370 (Phytosauria).
Fuchs, H. 1909 B, 130 (Phytosauria); 145, 149 (Parasuchia).
1911 B.
Fürbringer, M. 1904 A, 581 (Phytosauria).
Gadow, H. 1901 B, 433.
1902 B, 360.
Goodrich, E. S. 1916 A, 263 (Phytosauria).
Gregory and Adams 1915 A, 764 ("phytosaurs").
Heilmann, G. 1913 B, 50.
1916 A, 75.
Hoffmann, C. K. 1890 B, 1326.
Huene, F. 1908 B, 388, 395 (Phytosauria).
1908 E, 380 ("parasuchier").
1911 A, 736 ("phytosaurier").
1911 D, 45 ("phytosaurier").
1911 E, 67, 117 ("parasuchier"); 100 ("phytosaurier").
Huene, F. 1914 G, 47, 49, pl. vii ("parasuchier").
1922 E, 22.
1922 F, 408 ("parasuchier").
1922 H, 59 ("parasuchier").
1922 I, xlv ("phytosaurier").
1926 I, 52, 59, 63, 102.
1927 E, 320.
Huxley, T. H. 1875 E, 71.
1877 A, 56.
Jaekel, O. 1910 C, 340 (Belodontia).
1910 E, 205 (Belodontia); 220 (Parasuchi).
1911 A, 163 (Belodonti).
Kingsley, J. S. 1925 A, 166.
Lull, R. S. 1904 D, 148.
1910 A, 4.
1912 D, 411.
1915 A, 98.
1917 B, 322.
1917 C, 110.
Lydekker, R. 1887 C, 311.
1907 C, 458 (Phytosauria).
1912 C, 4, 20, 27.
McGregor, J. H. 1901 A, 272 ("belodonts").
1904 A, 254 (Phytosauria).
1906 A, 31 (Phytosauria).
Mehl, M. G. 1904 A, 254 (Phytosauria).
1906 A, 31 (Phytosauria).
1915 A, 129 (Phytosauria).
1928 B, 19.
1928 C, 141 (Phytosauria).
Merriam, J. C. 1904 A, 421.
1912 B, 222 (Pasachusia, err. typ.).
Moodie, R. L. 1909 G, 363 (Phytosauria).
1922 A, 417 (Phytosauria).
Newton, E. T. 1894 A, 586, 601.
Nicholson and Lydekker 1889 A, 1183.
Nopcsa, F. 1922 A, 112, 116 (Parasuchia); 112 ("phytosaurier").
1923 E, 1045 ("parasuchians").

Nopcsa, F. 1923 H, 3-188, tab.
Osborn, H. F. 1903 F, 276 (Phytosauria).
1903 H, 454, 456, 504 (Phytosauria).
1904 H, 112 (Phytosauria).
1904 N, 308 (Phytosauria).
1905 C, 295 (Phytosauria).
1905 N, 239.
1917 B, 319 ("phytosaurs").
Pompeckj, J. F. 1925 A, 23 ("parasuchier").
Reynolds, S. H. 1897 A, 211.
Seeley, H. G. 1887 E, 189.
Sewertzoff, A. N. 1908 A (Phytosauria).
Stehli, G. 1910 A, 790.
Steiner, H. 1922 A, 339.
Steinmann, G. 1909 A, 80 (Phytosauria).
Stromer, E. 1912 A, 83 (Phytosauria).
Tornier, G. 1913 B, 357, 374.
Troxell, E. L. 1925 C, 490.
Van den Broeck, E. 1900 A, 107.
Versluys, J. 1912 B, 573, 647.
Wegner, R. N. 1922 A, 480.
Williston, S. W. 1905 D, 297 (Phytosauria, Belodontia).
1906 A, 3.
1909 A, 395 ("phytosaurs").
1911 F, 661, 663.
1912 E, 260.
1912 F, 92.
1914 A, 18, 45, 184.
1917 C, 412.
1925 A, 114.
1925 B, 213, 284, 286.
Zittel and Broili 1911 A, 257.
1923 A, 313.
Zittel, Eastman, etc. 1902 A, 208.

PHYTOSAURIDÆ Lydekker.

Hay, O. P. 1902 A, 509.
Abel, O. 1919 A, 515.
1920 A, 378 ("phytosauriden").
Arldt, T. 1912 A, 662, 663.
Arthaber, G. 1906 A, 312.
Broom, R. 1914 H, 1076 ("phytosaurs").
Case, E. C. 1921 D, 338 ("phytosaurians").
Hoernes, R. 1886 A, 599 (Belodontidæ).
Huene, F. 1902 A, 61, 71 (Belodontidæ).
1908 B, 394.
1911 E, 116, 120.
1922 E, 23.
1922 F, 411.
1922 H, 158 (Phytosauridæ, Mystriosuchidæ).
1926 I, 74 ("phytosauriden").
1927 E, 320 ("phytosauriden").
Jaekel, O. 1908 B, 467 ("belodontiden").
1910 E, 197 ("belodontiden").
Lydekker, R. 1887 C, 312 (Belodontidæ).
McGregor, J. H. 1902 A, 27 (Belodontia).
1906 A, 92.
Mehl, M. G. 1925 A, 225 ("phytosaurs").
Nopcsa, F. 1923 H, 125 (Belodontidæ, Phytosaurinæ).
1928 A, 182 (Belodontidæ, Mystriosuchinæ, Phytosaurinæ).
Philippi, Frech and Volz 1903 A, 18 ("belodonten").
Tornier, G. 1913 B, 358.
Watson, D. M. S. 1917 C, 179.
Wegner, R. N. 1922 A, 481.
Williston, S. W. 1925 B, 286.
Zittel and Broili 1911 A, 258.

PALÆORHINUS Williston. Type *P. bransoni* Williston.

Williston, S. W. 1904 D, 696.
Branson and Mehl 1928 A, 326.
Case, E. C. 1920 B, 534 (Paleorhinus).
1922 B, 57, 68, text-fig. 23.
Huene, F. 1909 F, 587.
1915 A, 491.
1921 B, 570.
1922 E, 23.
1922 F, 410, 411.
1922 H, 88, 100, 143.
1926 E, 2, 3.
Jaekel, O. 1910 E, 201.
Lees, J. H. 1907 A, 121.
Mehl, M. G. 1915 A, 157.
1928 C, 143, 156.
Nopcsa, F. 1923 H, 83.
Versluys, J. 1912 B, 581, 648, fig. c^1.
Watson, D. M. S. 1917 C, 179.
Williston, S. W. 1925 B, 286.
Zittel and Broili 1911 A, 260.
1923 A, 316.

Palæorhinus bransoni Williston.

Williston, S. W. 1904 D, 696, text-fig. 6.
Huene, F. 1909 F, 592.
1911 A, 736 (Metarhinus).
Huene, F. 1911 E, 106, 118, 120.
1922 F, tab.
1922 H, 148.
1926 E, 4.
Jaekel, O. 1910 E, 215, figs. 10, 12, 13.
Lees, J. H. 1907 A, 123, figs. 1-8.
McGregor, J. H. 1906 A, 96.
Mehl, M. G. 1915 A, 157, figs. 19-20.
1928 C, 141, 154. 171.
Toepelmann, W. C. 1916 A, 43.
Upper Triassic (Popo Agie); Wyoming, Arizona.

Palæorhinus parvus Mehl.

Mehl, M. G. 1928 C, 142, 171, pls. i-iii; text-figs. 1, 2.
Triassic (Popo Agie); Wyoming.

Palæorhinus sp. indet.

Abel, O. 1922 D, 33, fig. 3.
Branson, E. B. 1927 A, 617. Triassic (Wingate); New Mexico.
Mehl, M. G. 1928 C, 142.
Toepelmann, W. C. 1916 A, 40, figs. 15, 16. (This genus?). Triassic (Wingate); New Mexico.

Phytosaurus Jaeger. Type *P. cylindricodon* Jaeger.

Hay, O. P. 1902 A, 509.
Abel, O. 1919 A, 519.
  1920 A, 379, figs. 592, 593.
  1922 D, 26, 47, 51.
Anderson, R. J. 1905 A, 322 (Belodon).
Arldt, T. 1907 D, 329 (Belodon).
Arthaber, G. 1906 A, 312.
Baur, G. 1889 L, 312 (Belodon).
Boas, J. E. V. 1914 C, 274, fig. 60 (Belodon).
Brauns, D. 1890 A, 160 (Belodon).
Broili, F. 1921 A, 342.
Bronn, H. G. 1849 A, 691 (Belodon).
Broom, R. 1913 O, 629 (Belodon).
Case, E. C. 1898 C, 732 (Belodon).
  1920 B, 523.
  1921 A, 135 (Belodon).
  1922 B, 59, fig. 24.
  1927 D, 227.
Cope, E. D. 1880 U, 145 (Belodon).
Depéret, C. 1912 A, 705 (Belodon).
Fraas, E. 1907 B, 106 (Belodon).
Fuchs, H. 1908 C, 217 (Belodon).
Gaudry, A. 1896 A, 122, fig. 99 (Belodon).
Gilmore, C. W. 1910 A, 500 (Belodon).
Hoernes, R. 1886 A, 599 (Belodon).
Hoffmann, C. K. 1890 B, 1326 (Belodon).
Huene, F. 1902 A, 55 (Belodon).
  1906 C, 337 (Belodon).
  1909 F, 583, figs. 1-2, 5-7.
  1910 B, 43.
  1911 E, 91, figs. 12-16, 25, 28.
  1920 E, 144.
  1921 E, xlv.
  1922 E, 23.
  1922 F, 410.
  1922 H, 65, many figs.
  1922 I, xlv.
  1926 E, 3.
Huxley, T. H. 1870 H, 496.
  1870 I, 23 (Belodon).
  1875 E, 68, 70 (Belodon).
  1876 F, 176 (Belodon).
  1877 A, 49.
Jaekel, O. 1908 B, 467 (Belodon).
Koken, E. 1893 B, 270 (Belodon).
  1910 E, 201 (Belodon); 214 (Phytosaurus).
Lydekker, R. 1885 G, 15, 21 (Belodon).
  1912 C, 19, 120, fig. 2.
McGregor, J. H. 1906 A, 31, 93.
Matthew, W. D. 1915 A, 286 (Belodon).
Mehl, M. G. 1916 A, 21 (Belodon).
  1922 A, 151 (Phytosaurus, Lophoprosopus).
Newton, E. T. 1894 A, 585.
Nopcsa, F. 1922 A, 116 (Belodon).
  1923 H, 83-85.
Owen, R. 1845 B, 196, pl. lxiii.
Philippi, Frech and Volz 1903 A, 18, pl. xviii (Belodon).
Pictet, F. A. 1853 A, 514.
Plieninger, T. 1847 A, 151 (Belodon).
Reynolds, S. H. 1897 A, 277, 281 (Belodon).
Schuchert, C. 1910 A, 438 (Belodon).
Seeley, H. G. 1892 C, 189 (Belodon).
  1899 B, 69 (Belodon).
Seitz, A. L. L. 1907 A, 259 (Belodon).
Steinmann, G. 1907 A, 432 (Belodon).
Tornier, G. 1913 B, 356, 358, figs. 37, 39.
Versluys, J. 1912 B, 648, fig. m².
Watson, D. M. S. 1916 C, 611 (Belodon).
  1917 C, 179.
Wegner, R. N. 1922 A, 480.
Williston, S. W. 1902 F, 26 (Belodon).
  1925 B, 286.
Wiman, C. 1914 A, 184, figs. 94, 96 (Belodon).
  1918 A, 83 (Belodon).
Woodward, A. S. 1922 C, 15, fig. 10 (Belodon).
Zittel and Broili 1911 A, 258.
  1923 A, 315, fig. 424.
Zittel, Eastman, etc. 1902 A, 210 (Belodon).

Phytosaurus doughtyi Case.

Case, E. C. 1920 B, 533, figs. 5, 6 [P. (Machæroprosopus)].
Huene, F. 1922 F, tab. (P. doughtei).
  1922 H, 149.
  1926 E, 5. (P. doughti. This genus?).
  Triassic (Dockum); Texas.

Phytosaurus leaii (Emmons).

Hay, O. P. 1902 A, 510.
Lyman, B. S. 1894 A, 207 (Belodon).
Mehl, M. G. 1915 A, 162 (Rutiodon carolinensis).
Rogers, H. D. 1858 B, 695 (Clepsysaurus).
Schuchert, C. 1910 A, 579 (Belodon).
  Triassic (Newark); North Carolina.

Phytosaurus lepturus (Cope).

Hay, O. P. 1902 A, 510.
Huene, F. 1921 B, 571 ("Belodon" lepturus. Syn? of Rutiodon carolinensis).
Lyman, B. S. 1894 A, 212 (Belodon).
Mehl, M. G. 1915 A, 162 (Syn. of Rutiodon carolinensis).
  Triassic (Newark); Pennsylvania.

Phytosaurus scolopax (Cope).

Hay, O. P. 1902 A, 510.
Huene, F. 1922 F, tab. ("gen. indet.").
  1922 H, 148, 150 ("gen. indet.").
  1926 E, 2 (Belodon).
Lees, J. H. 1907 A, 146 (Belodon).
McGregor, J. H. 1906 A, 94.
Mehl, M. G. 1915 A, 163 (Palæorhinus?).
  Triassic; New Mexico.

Phytosaurus superciliosus (Cope).

Hay, O. P. 1902 A, 510.
Huene, F. 1922 F, tab.
  1922 H, 149.
  1926 E, 5 (This genus?).
McGregor, J. H. 1906 A, 94.
Mehl, M. G. 1915 A, 163.
  Triassic (Dockum); Texas.

Phytosaurus validus (Marsh).

Hay, O. P. 1902 A, 510.
Huene, F. 1911 A, 106, 121.
Lull, R. S. 1915 A, 79, 109, text-fig. 12 (Rutiodon).

McGregor, J. H. 1906 A, 95 (Belodon).
Mehl, M. G. 1915 A, 162.
Triassic (Newark); Connecticut.

Phytosaurus sp. indet.

Case, E. C. 1927 D, 227, pl. i (This genus?). Triassic (Dockum); Texas.
Case, E. C. 1928 A, 161, figs. 1-9 (This genus?). Upper Triassic; Texas.
Stanton, T. W. 1905 A, 663 ("Belodon." This genus?). Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

ZATOMUS Cope. Type *Z. sarcophagus* Cope.

Hay, O. P. 1902 A, 490.
The position of this genus is doubtful.

Zatomus sarcophagus Cope.

Hay, O. P. 1902 A, 490.
Huene, F. 1914 K, 10.
Triassic (Newark); North Carolina.

Zatomus sp. indet.

Stephenson, L. W. 1912 A, 120 (Zatomis. This genus?).

ANGISTORHINUS Mehl. Type *A. grandis* Mehl.

Mehl, M. G. 1913 B, 186.
Branson, E. B. 1927 A, 617.
Branson and Mehl 1928 A, 326.
Case, E. C. 1920 B, 534.
1922 B, 55, 56, 68, text-fig. 22.
Eastman, C. R. 1917 B, 656.
Eastman, Gregory, Matthew 1917 A, 119.
Huene, F. 1915 A, 491.
1921 B, 570.
1922 E, 23.
1922 F, 410, 411.
1922 H, 88, 142.
1926 E, 2, 3.
Mehl, M. G. 1915 A, 129.
1922 A, 150.
1928 C, 143, 165.
Nopcsa, F. 1923 H, 83, 89.
Williston, S. W. 1925 B, 286.

Angistorhinus gracilis Mehl.

Mehl, M. G. 1915 A, 146, figs. 4, 17, 18.
Huene, F. 1922 F, tab.
1922 H, 148.
1926 E, 4.
Mehl, M. G. 1928 C, 141, 171.
Triassic (Popo Agie); Wyoming.

Angistorhinus grandis Mehl.

Mehl, M. G. 1913 B, 186, fig.
Huene, F. 1922 F, tab.
1922 H, 144.
1926 E, 4.
Mehl, M. G. 1915 A, 129, figs. 1-3, 5, 7?
1925 B, 227.
1928 B, 12, fig. 3.
1928 C, 141, 157, 165, 171.
Wiman, C. 1916 B, 214.
Triassic (Popo Agie); Wyoming.

Angistorhinus maximus Mehl.

Mehl, M. G. 1928 C, 158, text-figs. 3-6.
Triassic (Popo Agie); Wyoming.

Angistorhinus sp. indet.

Huene, F. 1926 E, 4.
Mehl, M. G. 1916 A, 26, pl. ii; text-fig. 11. (This genus?). Triassic; Arizona.
1928 C, 167, figs. 7, 8. Triassic (Popo Agie); Wyoming.

PSEUDOPALATUS Mehl. Type *P. pristinus* Mehl.

Mehl, M. G. 1928 B, 7.

Pseudopalatus pristinus Mehl.

Mehl, M. G. 1928 B, 7, pls. i-iii; text-figs. 1-6.
Triassic (Chinle); Arizona.

LEPTOSUCHUS Case. Type *L. crosbiensis* Case.

Case, E. C. 1922 B, 61, 69.
Huene, F. 1926 E, 8.

Leptosuchus crosbiensis Case.

Case, E. C. 1922 A, 61, pl. xiv; text-fig. 25.
1924 A, 419, pl. xxii, fig. 1; text-figs. 9-12.
Huene, F. 1926 E, 5 (L. crosbyensis).
Mehl, M. G. 1928 B, 11.
Upper Triassic; Texas.

Leptosuchus imperfectus Case.

Case, E. C. 1922 B, 68.
1924 A, 421, pl. xxii, fig. 2; pl. xxiii, fig. 1.
Upper Triassic; Texas.

MACHÆROPROSOPUS Mehl. Type *M. validus* Mehl.

Mehl, M. G. 1916 A, 5, 23, figs. 6-10.
Hay, O. P. 1902 A, 509 (Phytosaurus, in part).
Abel, O. 1922 D, 28, 35, 36 (Syn. of Phytosaurus).
Case, E. C. 1920 B, 534.
Case, E. C. 1922 B, 60, 68, fig. 24 (Phytosaurus).
Eastman, C. R. 1917 B, 656.
Eastman, Gregory and Matthew 1917 A, 119.
Huene, F. 1921 B, 570.
1922 E, 23.

Huene, F. 1922 F, 410, 411.
1922 H, 88, 143.
1926 E, 2, 3.
Mehl, M. G. 1922 A, 157.
Nopcsa, F. 1923 H, 83.
Williston, S. W. 1925 A, 81, fig. 66.
1925 B, 286 (Lophoprosopus).

Machæroprosopus andersoni Mehl.

Mehl, M. G. 1922 A, 144, figs. 1-3.
1925 B, 227.
1928 B, 9, fig. 3.
Upper Triassic; New Mexico.

Machæroprosopus buceros (Cope).

Hay, O. P. 1902 A, 510 (Phytosaurus).
Abel, O. 1922 D, 28, 34, fig. 4 (Phytosaurus).
Broili, F. 1921 A, 342.
Case, E. C. 1920 B, 533, 535 (Phytosaurus).
1928 A, 161 (Belodon).
Cope, E. D. 1891 N, 46, fig. 23 (Phytosaurus).
Huene, F. 1915 A, 490, fig. 11 (Phytosaurus).
1922 F, tab. (This genus?).
1922 H, 148 (Metapasaurus); 156 ("Phytosaurus").
1926 E, 4.
Jaekel, O. 1910 E, 215 (Metarhinus, preoccupied).
McGregor, J. H. 1906 A, 93 (Phytosaurus).
Mansuy, —— 1923 A, 91 (Phytosaurus biacros).
Mehl, M. G. 1915 A, 163 (Lophoprosopus?).
1916 A, 21 (Belodon); 23 (Machæroprosopus).
1928 B, 16 (Belodon).
Nopcsa, F. 1926 A, 647, text-fig. 5 (Phytosaurus).
Triassic; New Mexico.

Machæroprosopus validus Mehl.

Mehl, M. G. 1916 A, 5, figs. 1-5.
Abel, O. 1922 D, 35, fig. 5 (Syn. of M. buceros).
Huene, F. 1922 F, tab.
1922 H, 143.
1926 E, 4.
Mehl, M. G. 1916 A, 24, fig. 10 (1st sp.); 28 (2d sp.).
1922 A, 147, 155.
Triassic (Popo Agie); Arizona.

Machæroprosopus sp. indet.

Huene, F. 1926 E
Triassic (Popo Agie); Arizona.

PROMYSTRIOSUCHUS Case. Type *P. ehlersi* Case.

Case, E. C. 1922 B, 49, 69.
Huene, F. 1926 E, 8.
Mehl, M. G. 1928 C, 165.

Promystriosuchus ehlersi Case.

Case, E. C. 1922 B, 49, pl. ii; text-fig. 21.
Huene, F. 1926 E, 5 (P. œhlersi).
Upper Triassic; Texas.

HETERODONTOSUCHUS Lucas. Type *H. ganei* Lucas.

Hay, O. P. 1902 A, 515.
Huene, F. 1926 E, 2.
Lees, J. H. 1907 A, 148.
Mook, C. C. 1925 A, 380.
Williston, S. W. 1904 D, 696.

Heterodontosuchus ganei Lucas.

Hay, O. P. 1902 A, 515.
Broili, F. 1921 A, 342.
Cross, W. 1899 A, 3.
1899 B, 3 (This species?).
1907 A, 659.
1908 A, 113, 116.
Cross and Howe 1905 A, 468, 480, 489.
Darton, N. H. 1910 A, 42.
Gregory, H. E. 1917 A, 46, 47.
Huene, F. 1922 F, tab.
1922 H, 149.
1926 E, 4.
Lucas, F. A. 1901 B, 376.
1902 B, 134.
1904 A, 193.
McGregor, J. H. 1906 A, 63, 94 (Phytosaurus).
Mehl, M. G. 1913 B, 189 (Phytosaurus).
1915 A, 163 (Lophosaurus buceros?).
1916 A, 21.
Merrill, G. P. 1907 A, 73.
Mook, C. C. 1925 A, 380.
Upper Triassic (Chinle); Utah, Arizona: (Dolores); Colorado.

EPISCOPOSAURUS Cope. Type *E. horridus* Cope.

Hay, O. P. 1902 A, 511.
Cross and Howe 1905 A, 480.
Huene, F. 1902 A, 57.
1915 A, 493.
1922 E, 23.
1922 F, 411.
1922 H, 143.
1926 E, 2.
Lucas, F. A. 1901 B, 376.
1902 B, 134.
Zittel and Broili 1923 A, 316.
Zittel, Eastman, etc. 1902 A, 210.

Episcoposaurus haplocerus Cope.

Hay, O. P. 1902 A, 511.
Huene, F. 1922 F, tab. (Phytosaurus).
1922 H, 149.
Huene, F. 1926 E, 5 (This genus?).
McGregor, J. H. 1906 A, 96.
Triassic (Dockum); Texas.

Episcoposaurus horridus Cope.

Hay, O. P. 1902 A, 511.
Darton, N. H. 1910 A, 42 ("H. episcoposaurus").
Huene, F. 1902 A, 57.
1915 A, 492, figs. 12-15, 18-27.
1922 F, tab.
1922 H, 148, 149.
1926 E, 5.
1926 I, 62.
McGregor, J. H. 1906 A, 35, 96.
Triassic (Upper); New Mexico.

Episcoposaurus sp. indet.

Cross, W. 1908 A. Triassic (Shinarump); Arizona.
Gregory, H. E. 1917 A, 46. Triassic (Chinle); Arizona.
Huene, F. 1926 E, 9, fig. 6 (This genus?). Middle Triassic; Arizona.

RUTIODON Emmons. Type *R. carolinensis* Emmons.

Hay, O. P. 1902 A, 509 (Phytosaurus, part).
Abel, O. 1919 A, 522 (Syn. of Mystriosuchus).
Arthaber, G. 1906 A, 312 (Rhytidodon).
Case, E. C. 1922 B, 59 (Rhytidiodon).
Huene, F. 1902 A, 61 (Rytidodon).
1908 B, 395 (Rhytidodon).
1913 A, 277.
1915 A, 491.
1920 E, 145.
1922 E, 23.
1922 F, 411.
1922 H, 88, 101, 114.
Lee, J. H. 1907 A, 144 (Rhytidodon).
Lull, R. S. 1915 A, 43, 112.
Lydekker, R. 1911 A, 683 (Rhytitodon).
1914 A, 641.
McGregor, J. H. 1901 A, 272 (Rhytinodon).
1906 A (Rhytidodon).
Matthew, W. D. 1915 A, 286.
Mehl, M. G. 1913 B, 188 (Rhytidodon).
1915 A, 156.
Nopcsa, F. 1923 H, 85-87, pl. iv, fig. 10; pl. v, fig. 10.
Osborn, H. F. 1917 B, 199, 211, figs. (Rhytidodon).
Watson, D. M. S. 1917 C, 179 (Rhytidodon).
Williston, S. W. 1925 B, 286.
Zittel and Broili 1911 A, 259 (Rhytidodon).
1923 A, 316.

Rutiodon carolinensis Emmons.

Hay, O. P. 1902 A, 510 (Phytosaurus carolinensis, P. leaii, P. priscus, P. rostratus, P. serridens).
Abel, O. 1922 D, 52, 53, 57 (Syn. of Phytosaurus buceros).
Case, E. C. 1922 B, 74, 75 (Rhytidiodon, Rhytiodon).
Cross, W. 1899 A, 3 (Belodon priscus. This species?).
Fraas, E. 1907 B, 108 (Rhytidodon).
Hawkins, A. C. 1914 A, 153 (Centemodon sulcatus, Eurydorus serridens).
Huene, F. 1909 F, 592 (Rhytidodon. To Phytosaurus).
1911 E, 106, 119, 121, figs. 29, 30 (Mystriosuchus).
1913 A, 275, pl. xlix.
1915 A, 494.
1921 B, 568, fig. 11 ("Belodon" priscus); 570, figs. 12, 13 (R. carolinensis).
1922 F, tab. (R. carolinensis, R. rostratus).
1922 H, 64, 88, 95, 109, 110, 143 (R. carolinensis, R. rostratus).
Lees, J. H. 1907 A, 149 (Rhytidodon).
Lull, R. S. 1915 A, 110, fig. 13.
Lyman, B. S. 1894 A, 207, 209, 212 (Belodon car.); 212 (Centemodon sulcatus); 207 (Belodon leaii); 207, 209 (B. priscus); 212 (Eurydorus serridens).
McGregor, J. H. 1906 A, 95, figs. 12, 14-26 (Rhytidodon).
Mehl, M. G. 1915 A, 162 (Phytosaurus leaii, P. priscus, P. rostratus, P. serridens as syns.).
Merrill, G. P. 1907 A, 76 (Rhytidodon rostratus).
Moodie, R. L. 1909 G, 364 (Rhytidodon).
Rice and Gregory 1906 A, 172.
Rogers, H. D. 1858 B, 695 (R. car., Paleosaurus sulcatus); 695 (Phytosaurus leaii).
Schuchert, C. 1910 A, 579 (Belodon car., B. leaii).
Sinclair, W. J. 1918 A, 457.
Williston, S. W. 1914 A, 190, fig. 95.
1925 A, 141, 145, figs. 111, 118.
Wiman, C. 1918 A, 83 (Rhytidodon).
Zittel and Broili 1911 A, 259, fig. 405 (Rhytidodon).
Triassic (Newark); North Carolina:? (Dolores); Colorado.

Rutiodon manhattanensis Huene.

Huene, F. 1913 A, 277, pl. 1, text-fig. 14.
Abel, O. 1926 B, 19 (Phytosaurus).
Huene, F. 1915 A, 494.
1921 B, 571.
1922 F, tab.
1922 H, 143, 152.
1926 E, 5 (This genus?).
Lull, R. S. 1915 A, 113, pls. iii, ix.
Lydekker, R. 1914 A, 641.
Matthew, W. D. 1911 A, 28 ("dinosaur").
Sinclair, W. J. 1918 A, 457, figs. 1-10.
Triassic (Newark); New York.

Rutiodon validus Lull.

Lull, R. S. 1915 A, 79, 109, text-fig. 12.
Hay, O. P. 1902 A, 510 (Phytosaurus).
Abel, O. 1926 B, 19 (Phytosaurus).
Huene, F. 1911 A, 106, 121 (Phytosaurus).
1921 B, 571 (Syn? of Rutiodon carolinensis).
1922 F, tab. (Rutiodon).
1922 H, 143 (Belodon).
1926 E, 5 (Rutiodon?).
Lull, R. S. 1912 D, 411, 413, 414 (Rhytidodon).
1917 D, 110, 111 (Rutiodon).
McGregor, J. H. 1906 A, 95 (Belodon).
Mehl, M. G. 1915 A, 162 (Phytosaurus).
Triassic (Newark); Connecticut.

Rutiodon sp. indet.

Cross, W. 1899 B, 3 (Belodon). Triassic (Dolores); Colorado.
1905 B, 5 (Belodon). Triassic (Dolores); Colorado.

Order CROCODILOMORPHI, new name.

Nopcsa, F. 1928 A, 186 (Crocodilia).

Suborder GONIOPHOLIDIFORMES, new name.

Andrews, C. W. 1913 A, 80 (Mesosuchia).
Gilmore, C. W. 1926 B, 340 (Mesosuchia).
Huxley, T. H. 1875 B, 427 (Mesosuchia).
Lydekker, R. 1887 C, 311 (Mesosuchia).
1888 B, 76 ("amphicœlian series").
Newton, E. T. 1894 A, 586 (Mesosuchia).
Nicholson and Lydekker 1889 A, 1185 ("amphicœlian series").
Simpson, G. G. 1926 E, 6 ("brevirostrines").
1926 H, 204 ("brevirostral crocodiles").
Williston, S. W. 1914 A, 204 (Mesosuchia).
Woodward, A. S. 1898 B, 218 (Mesosuchia).
Zittel, K. A. 1890 A, 636, 647 (Mesosuchia).
Zittel and Broili 1923 A, 321 (Mesosuchia).

GONIOPHOLIDIDÆ Lydekker.

Lydekker, R. 1887 C, 312.
Hay, O. P. 1902 A, 516 (Goniopholidæ).
Arldt, T. 1907 D, 656 (Goniopholidæ).
Lydekker, R. 1912 C, 119.
Nopcsa, F. 1928 A, 187 (Goniopholidæ, Goniopholinæ, Hyposaurinæ).
Van den Broeck, E. 1900 A, 110.
Williston, S. W. 1906 A, 9.
1925 B, 289 (Goniopholidæ).
Zittel and Broili 1911 A, 270 (Goniopholidæ).
1923 A, 329 (Goniopholidæ).

GONIOPHOLIS Owen. Type *G. crassidens* Owen.

Hay, O. P. 1902 A, 516.
Abel, O. 1922 C, 384, fig. 328.
Andrews, C. W. 1913 B, 494.
Cannon, G. L. 1894 A, 246 (Diplosaurus)
Hooley, R. W. 1907 A, 50.
Hulke, J. W. 1878 A, 377, pl. xv.
Huxley, T. H. 1859 E, 445.
1859 I, 310.
1877 A.
Jaekel, O. 1927 A, 267, fig. 8.
Kesteven, H. L. 1919 A, 230, fig. 9.
Loomis, F. B. 1901 A, 195.
Lull, R. S. 1911 B, 177.
Lydekker, R. 1912 C, 119.
Mantell, G. A. 1844 A, 721.
Mook, C. C. 1916 A, 153, 155.
1925 A, 321 (Goniopholis); 379 (Diplosaurus, Amphicotylus).
Nopcsa, F. 1923 H, 109.
1925 B, 10.
1928 A, 187.
Owen, R. 1842 F, 71, 73.
1879 D, 149.
Reynolds, S. H. 1897 A, 275.
Sauvage, H. E. 1901 B, 10.
Schuchert, C. 1918 B, 259 (Diplosaurus).
Simpson, G. G. 1926 E, 7.
1926 H, 204.
Troedsson, G. T. 1924 A, 49.
Van den Broeck, E. 1900 A, 111.
Williston, S. W. 1905 B, 346 (Diplosaurus, Goniophilis).
1906 A, 3, 7 (Goniopholis); 7, 8 (Diplosaurus).
1925 B, 289.
Zittel and Broili 1911 A, 270.
1923 A, 329, fig. 442.

Goniopholis affinis Lull.

Lull, R. S. 1911 C, 210, pl. xx, fig. 7.
Gilmore, C. W. 1921 E, 589, pl. cx, fig. 1.
Lull, R. S. 1911 B, 177.
Mook, C. C. 1925 A, 329, fig. 5.
Lower Cretaceous (Arundel); Maryland.

Goniopholis felix (Marsh).

Hay, O. P. 1902 A, 516.
Lull, R. S. 1911 C, 211.
Mook, C. C. 1916 A, 148.
1925 A, 324, fig. 2.
Williston, S. W. 1906 A, 7 (Diplosaurus).
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Goniopholis? gilmorei.

Holland, W. J. 1905 A, 431, pl. xvi.
Abel, O. 1922 C, 440, fig. 379.
Mook, C. C. 1916 A, 148.
1925 A, 326, figs. 3, 4.
Williston, S. W. 1906 A, 8.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Goniopholis lucasii Cope.

Hay, O. P. 1902 A, 516.
Abel, O. 1922 C, 436 (Amphicotylus lucasi).
Mook, C. C. 1916 A, 148.
1925 A, 325 (Goniopholis); 380 (Amphicotylus).
Williston, S. W. 1906 A, 7 (Amphicotylus).
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Goniopholis nanus (Marsh).

Marsh, O. C. 1895 A, 405 (Diplosaurus).
Williston, S. W. 1905 B, 341 (Diplosaurus).
1906 A, 8 (Diplosaurus).
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Goniopholis vebbianus (Cope).

Hay, O. P. 1902 A, 516.
Cope, E. D. 1874 B, 431 (Hyposaurus vebbii).
Mook, C. C. 1916 A, 155 (Hyposaurus vebbii).
1925 A, 322, fig. 1.
Sauvage, H. E. 1901 B, 10 (Hyposaurus webbii).
Troxell, E. L. 1925 C, 491 (Hyposaurus).
Williston, S. W. 1905 B, 346 (Hyposaurus vebbii).
1906 A, 7 (Hyposaurus vebbii or H. vebbianus).
Upper Cretaceous (Benton); Kansas.

Goniopholis sp. indet.

Gilmore, C. W. 1909 B, 39. Upper Jurassic or Lower Cretaceous (Morrison); Colorado.
1914 A, 4, 25. Upper Jurassic or Lower Cretaceous (Morrison); Colorado.
Simpson, G. G. 1926 E, 3. Upper Jurassic; Wyoming.
Williston, S. W. 1906 A, 7. Lower Cretaceous (Comanche); Kansas.

CŒLOSUCHUS Williston. Type *C. reedi* Williston.

Williston, S. W. 1906 A, 9.
Mook, C. C. 1925 A, 382.
Nopcsa, F. 1923 H, 113.
1928 A, 187.
Williston, S. W. 1925 B, 289.
Zittel and Broili 1911 A, 270.
1923 A, 329.

Cœlosuchus reedi Williston.

Williston, S. W. 1906 A, 9, text-figs. 1-12.
Mook, C. C. 1925 A, 382, figs. 37-42.
Upper Cretaceous (Benton); Wyoming.

PHOLIDOSAURIDÆ Williston.

Williston, S. W., in Zittel, Eastman, etc. 1902 A, 215.
Abel, O. 1919 A, 546.
Andrews, C. W. 1913 B, 492.
Koken, E. 1887 A.
Williston, S. W. 1906 A, 6.
1925 B, 288.
Zittel, K. A. 1890 A, 670 (Macrorhynchidæ).
Zittel and Broili 1911 A, 269 (Macrorhynchidæ).
1923 A, 327.
Zittel, Eastman, etc. 1902 A, 215.

HYPOSAURUS Owen. Type *H. rogersii* Owen.

Hay, O. P. 1902 A, 516.
Anonymous 1906 D, 711.
Arldt, T. 1907 D, 90.
Cope, E. D. 1885 Z, 15.
Huxley, T. H. 1875 E, 75.
Mook, C. C. 1925 A, 343 (Syn. of Goniopholis).
Nopcsa, F. 1928 A, 187.
Sauvage, H. E. 1901 B, 10.
Thevenin, A. 1911 A, 3.
Toula and Kail 1885 A, 354.
Troedsson, G. T. 1924 A, 8.
Troxell, E. L. 1925 A, 221.
1925 C, 489, 492, fig.
1925 D, 613.
Williston, S. W. 1906 A, 1.
Zittel and Broili 1911 A, 270.

Hyposaurus ferox Marsh.

Hay, O. P. 1902 A, 516.
Mook, C. C. 1925 A, 347.
Williston, S. W. 1906 A, 4.
Upper Cretaceous (Middle marl); New Jersey.

Hyposaurus natator Troxell.

Troxell, E. L. 1925 C, 496-505, figs. 2-8, 14, 15.
Upper Cretaceous (Hornerstown); New Jersey.

Hyposaurus natator oweni Troxell.

Troxell, E. L. 1925 C, 505, figs. 9-13.
Upper Cretaceous (Marl); New Jersey.

Hyposaurus rogersii Owen.

Hay, O. P. 1902 A, 516.
Berry, E. W. 1916 A, 349, pl. viii, figs. 3, 4.
Cope, E. D. 1885 Z, 15 (H. rodgersi).
Mook, C. C. 1925 A, 344, figs. 14, 15.
Sauvage, H. E. 1901 B, 10 (H. rogertii).
Troxell, E. L. 1925 C, 490.
Williston, S. W. 1906 A, 1.
Upper Cretaceous (Greensand); New Jersey: (Monmouth); Maryland.

TELEORHINUS Osborn. Type *T. browni* Osborn.

Osborn, H. F. 1904 P, 239 (with *Terminonaris* as substitute name).
Mook, C. C. 1925 A, 381.
Nopcsa, F. 1928 A, 187.
Williston, S. W. 1905 G, 183 (Teleorrhinus).
1906 A, 5.
1925 B, 288, 289.
Zittel and Broili 1911 A, 269.

Teleorhinus browni Osborn.

Osborn, H. F. 1904 P, 239.
Mook, C. C. 1925 A, 381, fig. 36.
Thevenin, A. 1911 A, 4, 6.
Williston, S. W. 1906 A, 6.
Upper Cretaceous (Benton); Montana.

Suborder GAVIALIFORMES, new name.

Huxley, T. H. 1875 B, 430 ("long-snouted crocodiles").
Lydekker, R. 1888 B, 62 ("longirostrine section").
Nicholson and Lydekker 1889 A, 1192 ("longirostrine section").
Zittel, K. A. 1890 A, 658 (Longirostres).

GAVIALIDÆ Adams.

Adams, A. 1854 A, 70.
Hay, O. P. 1902 A, 515.
Abel, O. 1919 A, 553.
Arldt, T. 1907 D, 655.
Brauns, D. 1890 A, 152 ("gavialen").
Carus, V. 1875 A, 409.
Gadow, H. 1901 B, 451.
Gaupp, E. 1895 A, 58 ("gavialen").
Geoffroy St. Hilaire, E. F. 1825 B, 97 ("gavials").
Gray, J. E. 1867 C, 132.
    1872 B, 4, 5.
Hoernes, R. 1886 A, 602.
Huxley, T. H. 1859 B, 16.
    1859 I, 287, 300.
Lobley, J. L. 1908 A, 199, 208.
Nopcsa, F. 1923 H, 83 ("gavialen"); 126 (Gavialinæ).
    1926 A, 646 ("gavials").
    1928 A, 187 (Gavialinæ).
Sellards, E. H. 1915 A, 135.
Terra, P. 1911 A, 237.
Tornier, G. 1913 B, 361.
Troedsson, G. T. 1924 A, 49, 67.
Williston, S. W. 1914 A, 203.
    1925 B, 289.
Zittel and Broili 1911 A, 271.
    1923 A, 330.
Zittel, Eastman, etc. 1902 A, 221.

GAVIALIS Oppel. Type *G. gangeticus* Linnæus.

Hay, O. P. 1902 A, 515.
Abel, O. 1909 A, 251.
    1912 F, 515.
Arldt, T. 1907 D, 215.
    1911 A, 228.
Auer, E. 1909 A, 287.
Baur, G. 1891 F, 335.
Bronn, H. G. 1849 A, 687.
Cuvier, G. 1808 E, 74 ("gavial").
    1825 A, v, 2, 59, 106, pl. iii, figs. 5-7; pl. viii, figs. 1, 2.
Dollo, L. 1889 B, 677.
Fuchs, H. 1909 A, 350.
Gadow, H. 1901 B, 451.
Geoffroy St. Hilaire, E. F. 1825 A, 13.
    1825 B, 97.
Gervais, P. 1859 A, 447.
Giebel, C. G. 1855 A, 34, pl. xxxviii.
Gray, J. E. 1867 C, 132.
    1872 B, 5.
Hoffmann, C. K. 1890 B, 1059, 1062, pl. lix.
Howes, G. B. 1894 A, 80.
Huene, F. 1908 E, 379.
Huxley, T. H. 1859 I, 304.
    1875 E, 75.
Jäger, G. 1863 A, 101, pl. ("reptile").
Klein, E. F. 1863 A, 71.
Lemoine, V. 1884 C, 158, pl. iv.
Leunis and Ludwig 1883 A, 545.
Mook, C. C. 1921 H, 128, fig. 1.
Nopcsa, F. 1923 H, 12, 13, 87, 109, 110-112, pl. iii, fig. 7.
    1928 A, 187.
Owen, R. 1845 B, 286, pl. lxxv, fig. 2.
    1866 A, 406.
Rovereto, C. 1912 A, 367 (Garialis).
Troedsson, G. T. 1924 A.
Troxell, E. L. 1925 A, 220, 221.
Versluys, J. 1919 A, 23.
Williston, S. W. 1904 B, 177, text-fig. 10.
    1914 A, 198, figs. 101, 102, 105 ("gavial").
    1918 A, 79, fig. 3.
    1925 A, 103, 115, 141, figs. 80, 90, 112.
    1925 B, 289.
Zittel and Broili 1911 A, 272.
    1923 A, 322, fig. 432.
Zittel, Eastman, etc. 1902 A, 221.

Gavialis fraterculus Cope.

Hay, O. P. 1902 A, 515.
Mook, C. C. 1925 A, 346, fig. 16 (Hyposaurus).
Toula and Kail 1885 A, 354 (Hyposaurus, Gavialis).
Williston, S. W. 1906 A, 1 (Hyposaurus).

Upper Cretaceous (Hornerstown); New Jersey.

Gavialis minor Marsh.

Hay, O. P. 1902 A, 515.

Eocene (Shark River); New Jersey.

TOMISTOMIDÆ Eastman.

Eastman, C. R. 1902, in Zittel, Eastman, etc. 1902 A, 220.
Abel, O. 1919 A, 553, figs. 436, 437 (Tomistoma).
Sellards, E. H. 1915 A, 135.
Toula and Kail 1885 A (Tomistoma).
Troedsson, G. T. 1924 A, 67.
Williston, S. W. 1906 A, 3.
    1925 B, 289.
Zittel, K. A. 1890 A, 672 (Rhynchosuchidæ).

GAVIALOSUCHUS Toula and Kail. Type *G. eggenburgense* Toula and Kail.

Toula and Kail 1885, Anz. Akad. Wiss. Wien, 109.

Citations of the literature of *Tomistoma* also are presented.

Abel, O. 1922 C, 200, fig. 169.
Andrews, C. W. 1906 A, 267 (Tomistoma).
Arldt, T. 1911 A, 228 (Tomistoma).
Boulenger, G. A. 1889 A, 276 (Tomistoma).
Capellini, G. 1890 A, 507, pls. i-iv (Tomistoma).
Carus, V. 1875 A, 409 (Tomistoma).
Cope, E. D. 1900 A, 162 (Tomistoma).
Drevermann, F. 1918 A, 120, fig. 1 (Tomistoma).
Gray, J. E. 1867 C, 133 (Tomistoma).
    1872 B, 6 (Tomistoma).
Gregory, W. K. 1920 A, 125 (Tomistoma).
Howes, G. B. 1891 A, 148 (Tomistoma).
Hulke, J. W. 1871, Quart. Jour. Geol. Soc. Lond., xxvii. 3 (Melitosaurus).

Huxley, T. H. 1859 B, 16 (Rhynchosuchus).
Lydekker, R. 1886 F, 21, pl. ii (Tomistoma).
1888 B, 62, fig. 10 (Tomistoma).
Mook, C. C. 1921 B, 61.
1921 C, 77, text-fig. 6 (Tomistoma).
1921 H, 140, fig. 2 (Tomistoma).
1924 A, 1.
Müller, S. 1846, Arch. Naturgesch., I, 122 (Tomistoma).
Nicholson and Lydekker 1889 A, 1193, fig. 1091 (Tomistoma).
Sellards, E. H. 1915 A, 137 (Tomistoma).
Thevenin, A. 1911 A, 15 (Tomistoma).
Toula and Kail 1885 A, 302, 342, pls. i-iii; text-figs. 1-3.
Williston, S. W. 1925 B, 289 (Syn.? of Tomistoma).
Zittel, K. A. 1890 A, 674 (Tomistoma).
Zittel and Broili 1911 A, 271, fig. 420 (Tomistoma).
Zittel and Broili 1923 A, 330 (Tomistoma).
Zittel, Eastman, etc. 1902 A, 220, fig. 324 (Tomistoma).

Gavialosuchus americanus (Sellards).

Sellards, E. H. 1915 A, 136, figs. 1, 2 (Tomistoma).
Anonymous 1916 B, 480 (Tomistoma).
Hay, O. P. 1923 A, 380 (Tomistoma).
Merriam, J. C. 1917 A, 439 (Tomistoma).
Mook, C. C. 1921 A, 33, pls. viii, ix (G. americana).
1924 A, 1, fig. 1 (G. americana).
Rogers, A. F. 1924 A, 545 (Tomistoma).
Sellards, E. H. 1915 D, 73, 100, figs. 8, 29, 30 (Tomistoma).
1916 A, 237, figs. 2, 3 (Tomistoma).
Upper Miocene or Lower Pliocene (Bone Valley); Florida.

THORACOSAURIDÆ Troedsson.

Troedsson, G. F. 1924 A, 67.
Troxell, E. L. 1925 A, 231 (Thoracosauri).

THORACOSAURUS Leidy. Type *T. grandis* Leidy = *Gavialis neocesariensis* DeKay.

Hay, O. P. 1902 A, 515 (Thoracosaurus, Holops).
Abel, O. 1919 A, 553.
Andrews, C. W. 1906 A, 269.
Berry, E. W. 1916 A, 347.
Gadow, H. 1901 B, 451.
Heilprin, A. 1887 B, 329 (Thoracosaurus, Holops).
Huxley, T. H. 1875 E, 75 (Thoracosaurus, Holops).
Lydekker, R. 1886 E, 211, 220, 225, 235 (Holops).
Mook, C. C. 1925 A, 342 (Sphenosaurus); 348 (Thoracosaurus); 357 (Holops).
Nopcsa, F. 1923 H, 109.
Sellards, E. H. 1915 A, 137 (Thoracosaurus, Holops).
Tornier, G. 1913 B, 362.
Troedsson, G. T. 1924 A, 9, 56, pls. i-viii; 9 text-figs.
Troxell, E. L. 1925 A, 219, 220 (Thoracosaurus, Holops).
Williston, S. W. 1906 A, 211 (Holops).
1909 A, 399.
1914 A, 207 (Thoracosaurus, Holops).
1925 B, 289 (Thoracosaurus, Holops).
Woodward, A. S. 1898 B, 223.
1922 C, 12.
Zittel and Broili 1911 A, 271 (Thoracosaurus, Holops).
1923 A, 330 (Thoracosaurus, Holops).
Zittel. Eastman, etc. 1902 A, 220 (Thoracosaurus, Holops).
Troxell, E. L. 1925 A, 220.
Williston, S. W. 1906 A, 2 (Crocodilus).
Upper Cretaceous (Hornerstown); New Jersey.

Thoracosaurus basifissus (Owen).

Owen, R. 1849 A, 381, pl. x, figs. 1, 2 (Crocodilus).
Hay, O. P. 1902 A, 515 (T. neocesariensis, in part).
Mook, C. C. 1925 A, 352, fig. 18.
Toula and Kail 1885 A, 354 (Alligator, Crocodilus).

Thoracosaurus basitruncatus (Owen).

Hay, O. P. 1902 A, 515 (Holops).
Cope, E. D. 1869 N, 736 (T. tenebrosus).
1869 P, 123 (Crocodilus tenebrosus).
Mook, C. C. 1925 A, 359, fig. 20 (Holops basitruncatus); 362, fig. 22 (H. tenebrosus).
Owen, R. 1860 E, 277 (Crocodilus).
Toula and Kail 1885 A, 354 (Holops basitruncatus, H. tenebrosus, Crocodilus tenebrosus).
Troedsson, G. T. 1924 A, 11.
Troxell, E. L. 1925 A, 220.
Upper Cretaceous (Hornerstown); New Jersey.

Thoracosaurus brevispinus Cope.

Cope, E. D. 1869 H, 123 [Holops (Thoracosaurus)].
Hay, O. P. 1902 A, 516 (Holops brevispinis).
Cope, E. D. 1867 A, 39 (No description).
1869 B, 736 (No description).
1869 M, 69 (Holops brevispinis).
1869 P, 121 (T. brinispinus).
Mook, C. C. 1925 A, 365, figs. 24-26 (Holops).
Toula and Kail 1885 A, 354 (Holops).
Troedsson, G. T. 1924 A, 11, 50 (T. brevispinis).
Troxell, E. L. 1925 A, 220.
Upper Cretaceous (Hornerstown); New Jersey.

Thoracosaurus cordatus (Cope).

Hay, O. P. 1902 A, 516 (Holops).
Mook, C. C. 1925 A, 372, figs. 27, 28 (Holops).
Toula and Kail 1885 A, 354 (Holops, Crocodilus).
Troedsson, G. T. 1924 A, 11.

Troxell, E. L. 1925 A, 220.
Upper Cretaceous (Hornerstown); New Jersey.

Thoracosaurus glyptodon (Cope).

Hay, O. P. 1902 A, 516 (Holops).
Mook, C. C. 1925 A, 375 (Holops).
Toula and Kail 1885 A, 354 (Holops).
Troedsson, G. T. 1924 A, 11.
Troxell, E. L. 1925 A, 220.
Upper Cretaceous (Hornerstown); New Jersey.

Thoracosaurus meirsanus Troxell.

Troxell, E. L. 1925 A, 223, figs. 1, 2.
Upper Cretaceous (Hornerstown); New Jersey.

Thoracosaurus mullicensis Troxell.

Troxell, E. L. 1925 A, 227, figs. 3, 4.
Upper Cretaceous (Hornerstown); New Jersey.

Thoracosaurus neocesariensis (DeKay).

Hay, O. P. 1902 A, 515.
Andrews, C. W. 1906 A, 269.
Berry, E. W. 1916 A, 347, pl. viii, figs. 1, 2.
Mook, C. C. 1925 A, 342, fig. 13 (Sphenosaurus clavirostris); 348, fig. 17 (T. neocesariensis); 355 (T. dekayi, T. grandis).
Owen, R. 1860 E, 277 (Crocodilus).
Toula and Kail 1885 A, 354 (Thoracosaurus gavialis, Crocodilus dekayi, C. clavirostris).
Troedsson, G. T. 1924 A, 9, 50, 54.
Troxell, E. L. 1925 A, 220.
Williston, S. W. 1906 A, 2.
Upper Cretaceous; New Jersey: (Matawan); Maryland.

Thoracosaurus obscurus (Leidy).

Hay, O. P. 1902 A, 516 (Holops).
Cope, E. D. 1869 P, 123 (Crocodilus).
Mook, C. C. 1925 A, 360, fig. 21 (Holops).
Toula and Kail 1885 A, 354 (Thoracosaurus, Holops, Crocodilus).
Troedsson, G. T. 1924 A, 11.
Troxell, E. L. 1925 A, 220.
Upper Cretaceous (Hornerstown); New Jersey.

Thoracosaurus pneumaticus (Cope).

Hay, O. P. 1902 A, 516 (Holops).
Mook, C. C. 1925 A, 375, figs. 29-34 (Holops).
Toula and Kail 1885 A, 354 (Holops).
Troedsson, G. T. 1924 A, 11.
Troxell, E. L. 1925 A, 220.
Upper Cretaceous (Hornerstown); New Jersey.

Thoracosaurus sp. indet.

Berry, E. W. 1916 A, 348, pl. viii, fig. 11. Upper Cretaceous (Monmouth); Maryland.
Troxell, E. L. 1925 A, 229, figs. 5, 6. Upper Cretaceous (Hornerstown); New Jersey.

Suborder CROCODYLIFORMES, new name.

Unless otherwise indicated, the writers, as cited, use for this group the name Eusuchia.

Hay, O. P. 1902 A, 511.
Arldt, T. 1907 D, 145, 329.
Auer, E. 1909 A, 286.
Brauns, D. 1890 A, 147, 160, 202 (Crocodilida, "krokodile").
Broom, R. 1924 B, 64, fig. 13 (Crocodilia).
Case, E. C. 1898 C, 733.
Cope, E. D. 1891 N, 45.
Dollo, L. 1907 D, 85 ("eusuchiens").
Gadow, H. 1901 B, 434.
1902 B, 360.
Gaupp, E. 1895 A, 58, seq. ("crocodilen").
Gelderen, C. 1925 A, 495 (Crocodilia).
Gilmore, C. W. 1926 B, 340 (Eusuchia, Crocodilia).
Gray, J. E. 1867 C, 129 (Emydosauri).
Hayek, H. 1924 A, 151 (Crocodilia).
Huene, F. 1902 A, 54, 72.
Huxley, T. H. 1875 B.
1875 E, 72, 74.
1877 A.
Jaekel, O. 1910 C, 340 (Crocodili).
1911 A, 164 (Crocodili).
Kingsley, J. S. 1925 A, 14, 16, 44, 55, 163, 164, 251, 285.
Klaauw, C. J. 1924 B, 591 (Crocodilia).
Lydekker, R. 1887 C, 311.
Mehl, M. G. 1928 B, 19 (Crocodilia).
Newton, E. T. 1894 A, 586.
Nopcsa, F. 1923 D, 113.
1923 H, 3 (Eusuchia); 1, 2, 4, 6, 8, 10, 68, 91, 94, 112, 116, 119, 126, 160, 176, 180, 181, 183, tab. (Crocodilia).
Philippi, Frech and Volz 1903 A, 18.
Pictet, F. J. 1853 A, 475 ("crocodiliens").
Rafinesque, C. S. 1815 A, 75 (Megalepia).
Reynolds, S. H. 1897 A, 537 (Crocodilia, Eusuchia).
Schmidt, W. J. 1912 B, 163 ("krokodilen").
Siebenrock, F. 1906 A, 818 (Emydosauria).
Stannius, H. 1856 A (Crocodila).
Steinmann, G. 1907 A, 430.
Stromer, E. 1925 A, 4, seq. (Crocodilia).
Sushkin, P. P. 1927 A, 307 ("crocodilians").
Van den Broeck, E. 1900 A, 108.
Wegner, R. N. 1922 A, 480 (Crocodilia).
Williston, S. W. 1902 G, 314 (Crocodilia).
1904 B, 176 (Crocodilia).
1914 A, 18, 45, 195.
1925 A, 95.
1925 B, 213, 288.
Zittel and Broili 1923 A, 319, 383 (Crocodilia).
Zittel, Eastman, etc. 1902 A, 217.

See also the literature cited under the Loricata.

CROCODYLIDÆ.

Hay, O. P. 1902 A, 511.
Abel, O. 1909 D, (226) ("krokodile").
1919 A, 550 (Crocodilidæ).
Altmann, F. 1925 A, 95 ("crocodilen").
Arldt, T. 1907 D, 637 (Alligatoridæ); 648 (Crocodilidæ).

Arldt, T. 1912 A, 712, 756 (Crocodilidæ, Alligatoridæ).
Bender, O. 1907 A, 41 ("krokodilier").
Bonaparte, C. L. 1831 A, 72 (Crocodilidæ).
1833 B, 1184 (Crocodilidæ).
Broom, R. 1927 A, 74 ("crocodiles").
Carus, V. 1875 A, 409 (Crocodilidæ).
Cuvier, G. 1807 A, 64 (Crocodili, Alligatores).
1808 C, 1 ("crocodiles").
1808 E, 73 ("crocodiles").
Dollo, L. 1889 B, 677.
Dombrowski, B. A. 1925 A, 75 ("krokodile").
Fraas, E. 1913 D, lxiii ("krokodile").
Frech, F. 1906 A, 493 ("krokodile").
Fuchs, H. 1909 A, 349 ("krokodile").
1909 B, 114 ("krokodile").
Gadow, H. 1901 B, 454 (Crocodilidæ).
Gaupp, E. 1910 A, 541 ("krokodile").
1911 B, 111 ("krokodile").
1911 C, 444 ("krokodile").
Gegenbaur, C. 1867 B, 400 ("crocodilier").
Geoffroy St. Hilaire, E. F. 1807 D, 249 ("crocodiles").
1825 B, 121 ("crocodiles").
Gray, J. E. 1825 A, 195 (Crocodilidæ).
1867 C, 134 (Crocodilidæ); 160 (Alligatoridæ).
1872 B, 4, 6 (Crocodilidæ, Alligatoridæ).
Hasse, C. 1873 D, 679 ("crocodile").
Hasse and Schwarck 1870 A, 51 ("crocodilen").
Hoernes, R. 1886 A, 603 (Crocodilidæ).
Huene, F. 1908 E, 379 ("krokodile").
1908 F, 402 ("krokodile").
1922 D, 278 ("crocodiliden").
Huxley, T. H. 1859 G, 680 ("crocodiles," Alligatoridæ).
1859 I, 287 (Crocodilidæ, Alligatoridæ).
Kerbert, C. 1876 A, 224 ("krokodilen").
Leunis and Ludwig 1883 A, 542 (Crocodilina).
Lobley, J. L. 1908 A, 208.
Lorenz, L. E. F. 1807 A, 21 (Crocodilus)
Matthew, W. D. 1914 B, 387 (Crocodilidæ).
1921 D, 214 (Crocodilidæ).
Moodie, R. L. 1908 D, 455 ("crocodiles").
1909 G, 363 ("crocodiles").
Nopcsa, F. 1922 A, 113 (Crocodilidæ).
1923 H, 110, 111, 112, 114, 126 (Crocodilinæ).
1928 A, 187 (Crocodilidæ, Crocodilinæ, Thoracosaurinæ, Gavialinæ).
Owen, R. 1845 B, 285 ("crocodilians"); 286 ("crocodiles").
Pfeifer, H. 1854 A, 10 ("krokodile").
Pictet, F. J. 1853 A, 476 (Procœli).
Rabl, C. 1903 A, 157, 163 ("krokodile").
Schauinsland, H. 1906 A, 542 ("krokodile").
Seeley, H. G. 1882 A, 360, 365 ("crocodiles").
Sellards, E. H. 1915 A, 135 (Alligatoridæ).
Seydel, O. 1899 A ("crocodilier").
Shiino, K. 1914 A, 253 ("krokodile").
Terra, P. 1911 A, 237 (Crocodilidæ).
Thäter, K. 1910 A, 514 ("krokodile").
Tornier, G. 1888 A, 226 ("crocodilinen").
1913 B, 361 (Crocodilidæ).
Troedsson, G. T. 1924 A, 49 ("alligatoriden," "krokodilen").
Troxell, E. L. 1925 D, 606 ("crocodiles").
Vogt, C. 1879 A, 243 ("crocodiles").
Wallace, A. R. 1876 A, II, 406 (Crocodilidæ).
Wiedersheim, R. 1892 A, 55 ("krokodile").
Williston, S. W. 1914 A, 201.
1925 B, 290 (Crocodilidæ).
Zittel and Broili 1911 A, 272 (Crocodilidæ).
1923 A, 331 (Crocodilidæ).
Zittel, Eastman, etc. 1902 A, 121 (Alligatoridæ); 222 (Crocodilidæ).

Crocodylus Laurenti. Type *C. niloticus* Linnæus.

Laurenti, J. N. 1768, Syn. Rept., 53.
Hay, O. P. 1902 A, 512.
Abel, O. 1919 A, 535, 550, figs. 424, 435.
Adloff, P. 1913 C, 22 (Crocodilus).
Ahlborn, F. 1896 B, 9 ("krokodil").
Alessandrini, A. 1849 A, 379, pl. xxiv, figs. 1, 2; pl. xxvi, figs. 3, 4 (Crocodilus).
Alix, E. 1874 A, 17 ("crocodiles").
Allis, E. P. 1919 B, 79 (Crocodilus).
1919 C, 260.
1919 D, 209.
Arldt, T. 1907 D, 648 (Crocodilus).
1911 A, 228 (Crocodilus).
Bardeleben, K. 1901 A, 36 (Crocodilus).
Baur, G. 1897 D, 48 (Crocodilus).
Beer, G. R. 1926 A, 320, figs. 91-93, 122.
Bittner, F. 1912 A, 3 ("krokodil").
Boas, J. E. V. 1914 C, 266 (Crocodilus).
Bojanus, L. H. 1821 A, 1160 ("krokodil").
Bolk, L. 1912 A, 61 (Crocodilus).
1912 B, 953 (Crocodillus).
1913 A, 104, figs. 69, 75 (Crocodillus).
Braus, H. 1906 A, 261 ("krokodile").
Bronn, H. G. 1848 A, 351 (Crocodilus).
1849 A, 687 (Crocodilus).
Broom, R. 1908 E, 115 ("crocodile").
1909 B, 163 ("crocodile").
Brown, A. E. 1904 A, 467 (Crocodilus).
Brühl, C. B. 1862 A.
Carus and Engelmann 1861 A, 1726.
Case, E. C. 1904 D, 64 (Thecachampsa).
Cleland, J. 1863 B, 309 ("crocodile").
Cuvier, G. 1805 A (Crocodilus).
1807 A, 63 (Crocodilus).
1808 C, 4 ("crocodiles").
1808 E, 73 ("crocodiles").
1825 A, v, 2, 28-104 (Crocodilus).
Dollo, L. 1883 G, 594 ("crocodile").
Eichwald, E. 1832 A, 869 ("krokodill").
Eimer, G. H. T. 1901 A, 259 ("krokodil").
Eisler, P. 1895 A, 46 ("krokodil").
Fernandez, M. 1921 A, 516, pl. i ("krokodil").
Fleischmann, A. 1910 A, 682, 704, figs. 1, 27.
Fraas, E. 1902 B, 69 ("crocodile").
Fuchs, H. 1906 A, 19 ("krokodil").
1909 A, 349 (Crocodilus).
1909 D, 198, fig. 43 ("crocodilus").
Fürbringer, M. 1900 A, figs.
Gadow, H. 1896 A, 39, figs. 34, 37 (Crocodilus).
1901 B, 454 (Crocodilus).
Gaupp, E. 1895 A, 62 ("crocodil").
1899 A, 1083, figs. 16-19 ("krokodile").
1902 A, 176 (Crocodilus).

Gaupp, E. 1905 D, 1022, fig. 41 (Crocodilus).
    1908 B.
    1908 C, 674 (Crocodilus).
    1911 A, 425 (Crocodilus).
    1911 C, 452, figs. 18, 19 (Crocodilus).
Gegenbaur, C. 1871 A, 199 (Crocodilus).
Gelderen, C. 1925 A, 497.
Geoffroy St. Hilaire, E. F. 1824 H, 245-299, pl. xvi ("crocodile").
Gervais, P. 1852 A, 249 (Crocodilus).
    1853 B, 55 ("crocodiles").
    1859 A, 443 (Crocodilus).
Giebel, C. G. 1855 A, 88 (Crocodilus).
Goeppert, E. 1896 B, 1, fig. 1 ("crocodil").
Goldby, F. 1925 A, 301, figs. 1-5.
Gray, J. E. 1867 C, 146 (Crocodilus).
    1872 B, 14 (Crocodilus).
Gregory, W. K. 1910 D, 600 ("crocodile").
    1911 C, 404 ("crocodile").
    1913 E, 9, 32, figs. 7, 22 ("crocodile").
Gregory and Camp 1918 A.
Gregory and Noble 1924 A, 440, fig. 2.
Hanson, F. B. 1919 B, 73, fig. 31 ("crocodile").
Hasse, C. 1873 D, 679, pls. xxxi-xxxiii.
Hayek, H. 1924 A, 151, pl. ii.
Heilmann, G. 1914 A, 69, fig. 150.
    1926 A, 204, fig. 79.
Hertz, M. 1925 A, 557, 580, fig. 46.
Hoffmann, C. K. 1890 B, 1058, 1060, 1061, pls.
Howes, G. B. 1891 A, 156.
Huene, F. 1908 E, 379 (Crocodilus).
    1913 F, 469, figs. 2, 6 (Crocodilus).
Hulke, J. W. 1875 A, 364, fig. 4 (Crocodilus).
Hutchinson, H. N. 1917 A, 363.
Huxley, T. H. 1859 E, 445 (Crocodilus).
    1859 G, 678.
    1859 I, 291 (Crocodilus).
    1863 F, 475, 529, 579, figs. 41, 45, 48, 49 ("crocodile").
    1869 G, 440, figs. 1, 2 (Crocodilus).
    1869 H, 386 (Crocodilus).
    1879 A, 405, pl. viii (Crocodilus).
Iwanzoff, N. 1894 A, 584 ("crocodil").
Johnson, A. 1883 A, 403 ("crocodile").
Kesteven, H. L. 1918 A, 449, 450, figs. 2-4 (Crocodilus).
    1919 A, 227, figs. 5-8.
Kingsley, J. S. 1925 A, 55, 164, 202, figs. 14, 62, 176, 210.
Klaauw, C. J. 1924 B, 591.
Köstlin, O. 1844 A ("crocodile").
Lebedinsky, N. G. 1917 A, 318 (Crocodilus).
Leche, W. 1893 C, 796 ("krocodil").
Le Damany, P. 1902 A, 336 ("crocodile").
    1903 G, 157, figs. 8, 12 ("crocodile").
Lemoine, V. 1884 C, 159, pl. iv ("crocodile").
Leunis and Ludwig 1883 A, 543 (Crocodilus).
Lubosch, W. 1926 A, 114, fig. 12 ("crocodil").
Lwoff, W. 1884 A, 313 ("crocodile").
Lydekker, R. 1887 C, 308 (Crocodilus).
    1912 C, 40, 119 (Crocodilus).
Matthes, E. 1921 C (Crocodilus).
Matthew, W. D. 1915 A, 284 (Crocodilus).
Meckel, J. F. 1825 A (Crocodilus).
Meek, A. 1908 A, 1, fig. 2 ("crocodile").
    1911 A, 357 ("crocodile").
Mivart, St. G. 1879 B, 538 ("crocodile").
Mook, C. C. 1921 B, 51, pl. x; text-figs. 2-4 (Crocodilus).
    1921 C, 68, pls. xiii, xiv; text-figs. 1-5, 7-14, 16-19 (Crocodilus).
    1921 H, 151, figs. 3-8 (Crocodilus).
    1927 A, 1, figs. 1, 2.
Nopcsa, F. 1923 H, 86, 87, 111 (Crocodilus).
    1926 A, 641, text-fig. 4 ("crocodile").
    1928 A, 187 (Crocodilus).
Oken, L. 1819 A, 1542 ("crocodile").
    1823 B, 446 ("crocodile").
Osborn, H. F. 1909 D, 46 (Crocodilus).
    1912 J, figs. 14, 15 (Crocodilus).
Owen, R. 1845 B, 286, pl. lxxv, fig. 1; pl. lxxv*a*, fig. 2 (Crocodilus).
    1848 B, 22, 26, figs. 9, 18-23.
    1866 A, 70, 135, figs. 57, 93-95 (Crocodilus).
    1868 A, 875 (Crocodilus).
Paramore, R. H. 1910 A, 1399 (Crocodilus).
Parker and Haswell 1897 A, 322, figs. 927, 929, 937, 941 (Crocodilus).
Peters, W. 1868 A, 594 (Crocodilus).
    1869 A, 7 ("crocodile").
    1874 A, 42 ("crocodil").
Pictet, F. J. 1853 A, 476.
Pinkus, F. 1904 A, 152 ("krokodil").
Rabl, C. 1903 A, 156 (Crocodilus).
Retzius, A. 1837 A, 491 (Crocodilus).
Reynolds, S. H. 1897 A, 236-270, figs. 41, 42, 46, 50.
Rice, E. L. 1920 A.
Röse, C. 1892 G, 129.
Sabatier, A. 1897 A, 805 (Crocodilus).
Scharff, R. F. 1911 A, 180 (Crocodilus).
Schauinsland, H. 1906 A ("krokodile").
Schmidt, W. J. 1914 B, 643 (Crocodilus).
Schöne, G. 1902 A, 17 (Crocodilus).
Seeley, H. G. 1872 A, 36 ("crocodile").
    1876 C, 155 ("crocodiles").
    1878 B, 428 ("crocodile").
    1886 A, 413.
    1887 E, 188 ("crocodile").
    1888 I, 240 ("crocodilus").
    1905 A, 221.
Seemann, G. 1926 A, 110, text-fig. 2.
Seitz, A. L. L. 1907 A, 358 (Crocodilus).
Sewertzoff, A. N. 1908 A (Crocodilus).
Shaner, R. F. 1926 A, 362 ("crocodile").
Shiino, K. 1914 A, 253-382, pls. xv-xxi; text-figs. 1-33 (Crocodilus).
Shumard, B. F. 1863 A, 141 (Crocodilus).
Siebenrock, F. 1906 A, 818 (Crocodilus).
Sixta, V. 1900 B, 336 (Crocodilus).
Stannius, H. 1856 A (Crocodilus).
Stanton and Hatcher 1905 A, 38 (Crocodilus).
Stehli, G. 1910 A, 775, figs. 14-16 (Crocodilus).
Steiner, H. 1922 A, 345 (Crocodilus).
Stromer, E. 1906 A, 208, 212 (Crocodilus).
Taschenberg, O. 1894 A, 3634.
Thäter, K. 1910 A, 506 (Crocodilus).
Thyng, F. W. 1906 A, 60, fig. Q (Crocodilus).
Tornier, G. 1913 A, 320, fig. 6.
Troedsson, G. T. 1924 A.
Troxell, E. L. 1925 A, 221.
    1925 B, 31 (Crocodilus, Thecachampsa).
    1925 C, 490.
    1925 D, 607 (Crocodilus).

Versluys, J. 1903 A, 169 (Crocodilus).
Vialleton, L. 1919 A, 307 (Crocodilus).
Virchow, H. 1914 B, 115, figs. 3, 4, 6, 7, 14 ("krokodil").
1914 C, 131 ("krokodile").
Voeltzkow, A. 1899 A (Crocodilus).
Voeltzkow and Döderlein 1901 A, 316, fig. 1 (Crocodilus).
Vogt, C. 1879 A, 243, fig. 19 ("crocodile").
Voit, M. 1923 A, 69 ("krokodile").
Wallace, A. R. 1876 A, II, 406 (Crocodilus).
Wallisch, W. 1922 A, 533, figs. 2, 5 ("krocodil").
Wamich, P. 1913 A ("krokodile").
Watson, D. M. S. 1916 A, 341 (Crocodilus).
1917 A, 981 (Crocodilus).
1919 C, 239 ("crocodile").
Wiedersheim, R. 1892 A, 55 (Crocodilus).
Williston, S. W. 1904 E, 565 ("crocodiles").
1904 F, 830 ("crocodile").
1909 A, 396 ("crocodile").
1914 A, 199, figs. 103, 104 ("crocodile").
1925 B, 290 (Crocodilus).
Woodward, A. S. 1922 C, 11.
Zittel and Broili 1911 A, 273 (Crocodilus).
1923 A, 210, 323, 332, figs. 317, 433-435.
Zittel, Eastman, etc. 1902 A, 222 (Crocodilus).

Crocodylus acer Cope.

Hay, O. P. 1902 A, 512.
Cope, E. D. 1891 N, 47, fig. 24 (Crocodilus acer).
Mook, C. C. 1921 G, 117, pl. xviii.
Eocene (Manti); Utah.

Crocodylus affinis Marsh.

Hay, O. P. 1902 A, 512.
Mook, C. C. 1921 F, 111, pls. xvi, xvii (Crocodilus. This species?)
Toula and Kail 1885 A, 354 (Crocodilus).
Troxell, E. L. 1925 B, 30, 34, figs. 1, 2 (Crocodilus).
Middle Eocene (Bridger); Wyoming.

Crocodylus antiquus Leidy.

Hay, O. P. 1902 A, 512.
Case, E. C. 1904 D, 67, pl. xxvii, figs. 7-9 (Thecachampsa?).
Clark and Miller 1912 A, 167, 168 (Thecachampsa?).
Dall and Harris 1892 A, 56 (Crocodilus).
Shattuck, G. B. 1904 A, xciv.
Toula and Kail 1885 A, 354 (Thecachampsa).
Miocene (Calvert); Virginia or Maryland, North Carolina.

Crocodylus aptus Leidy.

Hay, O. P. 1902 A, 512.
Cope, E. D. 1884 O, 162.
Merrill, G. P. 1907 A, 66.
Toula and Kail 1885 A, 354 (Crocodilus).
Lower Eocene (Wasatch); Wyoming.

Crocodylus brevicollis Marsh.

Hay, O. P. 1902 A, 512.
Troxell, E. L. 1925 B, 39, fig. 4.
Middle Eocene (Bridger); Wyoming.

Crocodylus chamensis Cope.

Hay, O. P. 1902 A, 512.
Merrill, G. P. 1907 A, 63 (Alligator); 67 (Crocodylus).
Toula and Kail 1885 A, 354 (Crocodilus).
Lower Eocene (Wasatch); New Mexico.

Crocodylus clavis Cope.

Hay, O. P. 1902 A, 512.
Merrill, G. P. 1907 A, 67.
Peterson, O. A. 1919 A, 41 (Crocodilus. This species?)
Seeley, H. G. 1886 A, 413.
Toula and Kail 1885 A, 354 (Crocodilus).
Middle Eocene (Bridger); Wyoming: Uppei Eocene (Uinta); Utah.

Crocodylus contusor Cope.

Hay, O. P. 1902 A, 512 (Crocodylus antiquus, part).
Case, E. C. 1901 A, 96, pl. x, fig. 4 (Thecachampsa).
1904 D, 66, pl. xxvii, fig. 6 (Thecachampsa?).
Clark and Miller 1912 A, 117, 118 (Thecachampsa).
Shattuck, G. B. 1904 A, xciv.
Eocene (Aquia); Virginia: Miocene (Calvert); Maryland.

Crocodylus elliotti Leidy.

Hay, O. P. 1902 A, 512.
Hayden, F. V. 1871 A, 40 (Crocodilus).
Merrill, G. P 1907 A, 67.
Toula and Kail 1885 A, 354 (Crocodilus).
Middle Eocene (Bridger); Wyoming: Lower Eocene (Wasatch); New Mexico.

Crocodylus fastigiatus Leidy.

Hay, O. P. 1902 A, 512.
Eocene, Virginia.

Crocodylus grinellii Marsh.

Hay, O. P. 1902 A, 512.
Toula and Kail 1885 A, 354 (Crocodilus).
Troxell, E. L. 1925 B, 30, 38 (Crocodilus).
Middle Eocene (Bridger); Wyoming.

Crocodylus grinnelli herpichanus (Troxell).

Troxell, E. L. 1925 B, 40, 44-66, figs. 5-19 (Crocodilus).
Middle Eocene (Bridger); Wyoming.

Crocodylus grypus Cope.

Hay, O. P. 1902 A, 512.
Merrill, G. P. 1907 A, 67.
Toula and Kail 1885 A, 354 (Crocodilus).
Middle Eocene (Bridger); New Mexico.

Crocodylus humilis Leidy.

Hay, O. P. 1902 A, 513.
Bowen, C. F. 1915 A, 130, 149, 150.
Brown, B. 1914 E, 378 (Crocodilus).
Cross, W. 1896 A, 227.
Gilmore, C. W. 1910 A, 485.

Hatcher, J. B. 1903 D, 372.
1905 B, 82.
Hay, O. P. 1903 D, 119.
1910 B, 297.
Lambe, L. M. 1902 A, 47 (Crocodilus).
1904 C, 25, 37, 49 (Crocodilus).
1907 C, 219.
Matthew, W. D. 1916 A, 484 (Crocodilus).
Osborn, H. F. 1902 H, 674 (Crocodilus).
1902 I, 13, 17 (Crocodilus).
Peale, A. C. 1912 A, 754 (Crocodilus).
Toula and Kail 1885 A, 354 (Crocodilus, Bottosaurus?).
Williston, S. W. 1902 K, 953 (Crocodilus).
1906 A, 3 (Crocodilus).
Upper Cretaceous (Judith); Montana: (Lance); Wyoming: (Arapahoe or Denver); Colorado.

Crocodylus liodon Marsh.

Hay, O. P. 1902 A, 513.
Loomis, F. B. 1907 B, 358.
Merrill, G. P. 1907 A, 68 (Crocodylus?).
Toula and Kail 1885 A, 354 (Crocodilus).
Troxell, E. L. 1925 B, 33, fig. 3 (Crocodilus).
Lower Eocene (Wasatch); Wyoming, New Mexico.

Crocodylus marylandicus W. B. Clark.

Hay, O. P. 1902 A, 513.
Case, E. C. 1901 A, 96, pl. x, fig. 5 (Thecachampsa).
Clark and Miller 1912 A, 117, 118 (Thecachampsa).
Eocene (Aquia); Maryland.

Crocodylus parvus Osborn, Scott, and Speir.

Hay, O. P. 1902 A, 513.
Middle Eocene (Bridger); Wyoming.

Crocodylus rugosus (Emmons).

Hay, O. P. 1902 A, 513.
Gilmore, C. W. 1911 A, 208 (Thecachampsa).
Stephenson, L. W. 1912 A, 120 (Thecachampsa).
Upper Cretaceous (Black Creek); North Carolina: (Ripley); Georgia.

Crocodylus sericodon Cope.

Hay, O. P. 1902 A, 513.
Case, E. C. 1901 A, 95, pl. x, fig. 3 (This species?).
1904 D, 65, pl. xxvii, figs. 1, 2 (Thecachampsa?).
Miller, B. L. 1911 A, 103 (Thecachampsa. This species?).
1912 A, 2 (This species?).
Shattuck, G. B. 1904 A, xciv.
Shattuck, Miller and Bibbins 1907 A, 5 (Thecachampsa. This species?).
Toula and Kail 1885 A, 354 (Crocodilus).
Miocene (Calvert); Maryland, New Jersey.

Crocodylus serratus Cope.

Hay, O. P. 1902 A, 513.
Eocene (Shark River?); New Jersey.

Crocodylus sicarius Cope.

Hay, O. P. 1902 A, 513.
Case, E. C. 1904 D, 66, pl. xxvii, figs. 3-5 (Thecachampsa?).
Shattuck, G. B. 1904 A, xciv.
Toula and Kail 1885 A, 354 (Thecachampsa).
Miocene (Chesapeake); Maryland.

Crocodylus solaris Marsh.

Hay, O. P. 1902 A, 513.
O'Harra, C. C. 1910 A, 122 (Crocodilus salaris).
Pliocene?; South Dakota.

Crocodylus squankensis Marsh.

Hay, O. P. 1902 A, 513.
Cope, E. D. 1873 FF, 8 (Thecachampsa).
Toula and Kail 1885 A, 354 (Thecachampsa).
Eocene (Shark River?); New Jersey.

Crocodylus stavelianus Cope.

Hay, O. P. 1902 A, 513.
Gilmore, C. W. 1920 A, 10.
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Crocodylus subulatus Cope.

Cope, E. D. 1872 UU, 1 [Crocodilus (Ichthyosuchus) *errore* sublatus.
Hay, O. P. 1902 A, 513.
Gilmore, C. W. 1910 A, 501.
Merrill, G. P. 1907 A, 68.
Toula and Kail 1885 A, 354 (Crocodilus).
Middle Eocene (Bridger); Wyoming.

Crocodylus sulciferus Cope.

Cope, E. D. 1872 UU, 1.
Hay, O. P. 1902 A, 513.
Merrill, G. P. 1907 A, 68.
Toula and Kail 1885 A, 354 (Crocodilus).
Middle Eocene (Bridger); Wyoming.

Crocodylus vorax Troxell.

Troxell, E. L. 1925 B, 31, 42, fig. 22 (Crocodilus).
Middle Eocene (Bridger); Wyoming.

Crocodylus wheelerii Cope.

Hay, O. P. 1902 A, 513.
Loomis, F. B. 1907 B, 358.
Merrill, G. P. 1907 A, 68.
Lower Eocene (Wasatch); New Mexico.

Crocodylus sp. indet.

Bowen, C. F. 1915 A, 130. Upper Cretaceous (Hell Creek); Montana.
Brown, B. 1907 A, 842. Upper Cretaceous (Hell Creek); Montana.
Case, E. C. 1901 A, 95, pl. x, figs. 1, 2 (Thecachampsa).
Clark and Miller 1912 A, 117, 118 (Thecachampsa).
Gilmore, C. W. 1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
Hay, O. P. 1923 A, 482. Pleistocene; Maryland, Virginia, Georgia.
Kennedy, W. 1893 A, 49 ("Crocodilus").

Merriam, J. C. 1917 A, 437 ("crocodile").
Merrill, G. P. 1907 A, 68.
Peterson, O. A. 1917 A, 471, fig. 3 ("Crocodilus sp. indet." This genus?). Pleistocene; Virginia.
Reeside, J. B. 1924 A, 23, 42. Upper Cretaceous (Fruitland, Ojo Alamo, Nacimiento); New Mexico.
Sinclair, W. J. 1915 A, 77 ("crocodile"). Pliocene (Snake Creek); Nebraska.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.

LIMNOSAURUS Marsh. Type *Crocodilus ziphodon* Marsh.

Hay, O. P. 1902 A, 514.
Williston, S. W. 1925 B, 290.

Limnosaurus ziphodon Marsh.

Hay, O. P. 1902 A, 514.
Toula and Kail 1885 A, 354 (Crocodilus).
Troxell, E. L. 1925 B, 31 (Crocodilus).
Middle Eocene (Bridger); Wyoming.

LEIDYOSUCHUS Lambe. Type *L. canadensis* Lambe.

Lambe, L. M. 1907 C, 221, 222.
Abel, O. 1919 A, 552.
Gilmore, C. W. 1910 A, 485, 499.
Lambe, L. M. 1912 A, 10.
Lydekker, R. 1911 A, 682.
1912 C, 135.
Mook, C. C. 1925 A, 387.
Nopcsa, F. 1923 H, 112.
Williston, S. W. 1925 B, 290.
Zittel and Broili 1911 A, 272.
1923 A, 332.

Leidyosuchus canadensis Lambe.

Lambe, L. M. 1907 C, 221, pls. i-v.
Bowen, C. F. 1915 A, 129, 130.
Brown, B. 1914 E, 378.
Gilmore, C. W. 1910 A, 486-496.
Hay, O. P. 1910 B, 297.
Lambe, L. M. 1908 B, 111.
Matthew, W. D. 1916 A, 484.
Mook, C. C. 1925 A, 389, figs. 43-47.
Upper Cretaceous (Belly River); Alberta.

Leidyosuchus sternbergii Gilmore.

Gilmore, C. W. 1910 A, 486, pls. xxiii, xxix; text-figs. 1, 2.
Bowen, C. F. 1915 A, 130.
Brown, B. 1914 E, 358.
Gilmore, C. W. 1917 A, 6.
Mook, C. C. 1925 A, 404, figs. 48-52.
Upper Cretaceous (Lance); Wyoming: (Hell Creek); Montana.

Leidyosuchus sp. indet.

Gilmore, C. W. 1917 A, 4. Upper Cretaceous (Two Medicine); Montana.

ALLOGNATHOSUCHUS Mook. Type *Crocodilus polyodon* Cope.

Mook, C. C. 1921 E, 105.
Abel, O. 1928 A, 367, fig. 1.
Case, E. C. 1925 B, 93.

Allognathosuchus heterodon (Cope).

Hay, O. P. 1902 A, 513 (Crocodylus).
Abel, O. 1928 A, 369 (Crocodilus).
Case, E. C. 1925 B, 96.
Cope, E. D. 1874 B, 436, 441 (Alligator).
Loomis, F. B. 1907 B, 358 (Crocodylus).
Merrill, G. P. 1907 A, 63 (Alligator); 67, 68 (Crocodylus).
Mook, C. C. 1921 E, 109.
1923 B, 562.
Seeley, H. G. 1886 A, 413 (Crocodilus).
Toula and Kail 1885 A, 354 (Crocodilus).
Lower Eocene (Wasatch); Wyoming.

Allognathosuchus polyodon (Cope).

Hay, O. P. 1902 A, 513 (Crocodylus).
Abel, O. 1928 A, 371.
Case, E. C. 1925 B, 93, text-fig. 1.
Gilmore, C. W. 1910 A, 501 (Crocodylus).
Merrill, G. P. 1907 A, 68 (Crocodylus); 69 (Diplocynodus).
Mook, C. C. 1921 E, 106, pl. xv.
1923 B, 562.
Toula and Kail 1885 A, 354 (Crocodilus).
Middle Eocene (Bridger); Wyoming.

Allognathosuchus wartheni Case.

Case, E. C. 1925 B, 93, pl. i.
Abel, O. 1928 A, 370.
Lower Eocene (Wasatch); Wyoming.

DIPLOCYNODON Pomel. Type *D. ratelii* Pomel.

Hay, O. P. 1902 A, 514.
Abel, O. 1919 A, 553.
Ärnbäck-Christie-Linde A. 1912 B, 275.
Arldt, T. 1911 A, 228.
Broom, R. 1903 L, 345.
Gadow, H. 1901 B, 454.
Gilmore, C. W. 1911 B, 297.
Gregory, W. K. 1920 A, 125.
Lull, R. S. 1918 C, 133, fig. 25.
Lydekker, R. 1887 C, 308.
Nopcsa, F. 1923 H, 114.
1928 A, 187.
Osborn, H. F. 1907 G, 28, 219, figs. 20, 207.
Palmer, T. S. 1904 A, 237, 887.
Scharff, R. F. 1911 A, 180.
Schlosser, M. 1899 J, 353.
Schuchert, C. 1910 A, 582.
Stefano, G. 1905 A, 35, pl. xxxi.
Tornier, G. 1913 B, 362.
Troedsson, G. T. 1924 A, 46, 50, 67.
Williston, S. W. 1925 B, 290.
Zittel and Broili 1911 A, 272.
1923 A, 331, fig. 445.
Zittel, Eastman, etc. 1902 A, 221.

Diplocynodon sphenops (Cope).

Hay, O. P. 1902 A, 514.
Loomis, F. B. 1907 B, 358.
Merrill, G. P. 1907 A, 69 (Diplocynodus).
Troedsson, G. T. 1924 A, 68.
Lower Eocene (Wasatch); New Mexico.

PHOBOSUCHUS Nopcsa. Type *Deinosuchus hatcheri* (Holland).

Nopcsa, F. 1924 A, 378.
Gilmore, C. W. 1901 A, 501 (Deinosuchus).
Holland, W. J. 1909 B, 281 (Deinosuchus; preoccupied).
1917, in Peterson, O. A. 1917 A, 472 (Deinosuchus).
Mook, C. C. 1925 A, 418 (Deinosuchus).
Nopcsa, F. 1928 A, 187.
Williston, S. W. 1925 B, 290 (Deinosuchus).
Zittel and Broili 1911 A, 272 (Deinosuchus).
1923 A, 332 (Deinosuchus).

The family position of this genus is uncertain.

Phobosuchus hatcheri (Holland).

Holland, W. J. 1909 B, 281, figs. 1-7, 9-16 (Deinosuchus).
Bowen, C. F. 1915 A, 130 (Deinosuchus).
Lull, R. S. 1921 A, 121 (Deinosuchus).
Lydekker, R. 1910 F, 668 (Deinosuchus).
Mook, C. C. 1925 A, 419 (Deinosuchus).
Upper Cretaceous (Judith River); Montana.

ORTHOGENYSUCHUS Mook. Type *O. olseni* Mook.

Mook, C. C. 1924 B, 1.

Orthogenysuchus olseni Mook.

Mook, C. C. 1924 B, 1, figs. 1, 2.
Lower Eocene (Wasatch); Wyoming.

ALLIGATOR Cuvier. Type *A. lucius* Cuvier = *Crocodilus mississippiensis* Daudin.

Cuvier, G. 1807 A, 25.
Hay, O. P. 1902 A, 514.
Abel, O. 1919 A, 553.
Adams, L. A. 1919 A, 92, pl. vi.
Adloff, P. 1918 A, 134, fig. 3.
Agar, W. E. 1909 A, 380.
Altmann, F. 1925 A, 96.
Anderson, R. J. 1905 A, 322, fig. 10.
Arldt, T. 1911 A, 228.
Arthaber, G. 1919 B, 448, fig. 41.
Beebe, C. W. 1906 A, 485 ("alligator").
Bender, O. 1907 A, 40.
Beyer, H. 1907 B, 290, figs. 13, 14.
Boas, J. E. V. 1914 C, 273, figs. 57, 61.
Bronn, H. G. 1849 A, 687.
Brown, A. E. 1904 A, 467.
Carus, V. 1875 A, 408.
Carus and Engelmann 1861 A, 1109.
Case, E. C. 1896 A, 232.
Chapman, H. C. 1894 A, 42, fig. 11 ("alligator").
Dixey, F. A. 1881 A, 67 ("alligator").
Edgeworth, F. H. 1907 A, 521, figs. 21, 22.
Eimer, G. H. T. 1901 A, 37.
Emery, C. 1901 A, 675.
Forbes, W. A. 1879 A, 364 ("alligator").
Frech, F. 1906 A, 493.
Fuchs, H. 1909 A, 351, fig. 1.
1910 C, 495.
Fürbringer, M. 1900 A.
Gadow, H. 1901 B, 466.
Gaupp, E. 1895 A, 62.
1899 A, 1085 ("alligator").
1908 B, 528.
1908 C, 674.
Gegenbaur, C. 1863 A, 470.
Giebel, C. G. 1855 A, 88.
Gilmore, C. W. 1911 B, 297.
Gray, J. E. 1867 C, 162, 168.
1872 B, 28.
Gregory, W. K. 1920 A, 124, figs. 40, 41.
Gregory and Camp 1918 A, pls. xliii, xlvi, 1; text-fig. 10.
Hanson, F. B. 1920 B, 334, 337.
Heilmann, G. 1926 A, 203.
Heilprin, A. 1887 A, 328, 329 ("alligators").
Higgins, G. M. 1923 A.
Hoffman, C. K. 1890 B, 1059-1063, pls.
Huxley, T. H. 1859 G, 680 ("alligators").
1859 I, 287.
1869 G, 446.
Kehrer, F. A. 1896 A, 354, figs. 23, 24.
Kingsley, J. S. 1900 A, 219.
1905 A, 64, fig. 7 ("alligator").
1925 A, 43, 141, 166, 267, 281, figs. 149, 178, 179, 289, 305.
Klein, E. F. 1863 A, 71.
Leunis and Ludwig 1883 A, 542.
Lobley, J. L. 1908 A, 199.
Lydekker, R. 1887 C, 308.
1910 E, 352 ("alligator").
1912 C, 42, 119.
Matthew, W. D. 1915 A, 284, 287.
Mivart and Clark 1879 A, 523, text-fig. 3.
Moodie, R. L. 1907 A, 89 ("alligator").
1909 G, 363 ("alligator").
Mook, C. C. 1921 H, 252, figs. 3-8.
Nopcsa, F. 1903 C, pl. vi, fig. 6.
1923 H, 110, 111, pl. vi, fig. 8.
1925 B, 9.
1928 A, 187.
Owen, R. 1845 B, pls. lxxv, lxxva.
1848 B, 26.
Parsons, F. G. 1903 A, 316, fig. 2.
Peters, W. 1868 A, 593.
Pictet, F. J. 1853 A, 476.
Pinkus, F. 1904 A, 153, pl. xi, fig. 22.
Romer, A. S. 1923 A, 143, fig. 1.
1923 B, 534.
1923 C, 606, 608, fig. 2.
1927 C, 231, fig. 1.
Rovereto, C. 1912 A, 341.
Scharff, R. F. 1911 A, 180.
Schmidt, W. E. 1904 A, 105 ("alligatoriden").
Schöne, G. 1902 A, 18, figs. 4, 5.

Seeley, H. G. 1876 C, 168.
Seemann, G. 1926 A, 110, text-fig. 1.
Seitz, A. L. L. 1907 A, 357.
Stannius, H. 1856 A, 55.
Stefano, G. 1905 A, 27, pl. iii.
Steiner, H. 1922 A, 345.
Stejneger, L. 1901 A, 308.
Stejneger and Barbour 1917 A, 41.
Thyng, F. W. 1906 A, 61, fig. R.
Troedsson, G. T. 1924 A.
Troxell, E. L. 1925 A, 221.
1925 D, 610, figs. 4, 5.
Versluys, J. 1919 A, 23.
Virchow, H. 1914 A, 79 ("alligators").
1914 B, 103.
1921 A, 139 ("alligatoren").
Voeltzkow and Döderlein 1901 A, 316.
Wallace, A. R. 1876 A, II, 406.
Wilder, B. G. 1868 A, 423, pl. xi, fig. 9.
Williston, S. W. 1903 A, 32, pl. v, fig. 3.
1925 A, 84, 174, 192, figs. 68, 69, 140, 157.
1925 B, 290.
Wyman, J. 1867 B, 265, figs. 9-12.
Zittel and Broili 1911 A, 272.
1923 A, 331.

Alligator mississippiensis Daudin.

Daudin, F. M. 1803, Hist. Nat. Rept., II, 412.
Hay, O. P. 1902 A, 514.
Abel, O. 1907 A, 235.
1922 D, 40.
Arthaber, G. 1906 A, 299, fig. 7.
Baur, G. 1897 D, 48.
Case, E. C. 1896 A, 233, figs. 1, 2.
Cuvier, G. 1825 A, v, 2, 64 (Crocodilus lucius).
Ditmars, R. L. 1907 A, 143.
Foote, J. S. 1916 A, 56, pl. iv, fig. 65.
1921 A, 5, pl. i, figs. 6, 7.
Gadow, H. 1901 B, 467.
Gaupp, E. 1906 B, 782.
Goldby, F. 1925 A, 301, figs. 6-10.
Gray, J. E. 1867 C, 168.
1872 B, 29.
Hase, A. 1913 A, figs. 46, 51, 57.
Haughton, S. 1868 A, 282, pl. x.
Hay, O. P. 1917 B, 13.
1917 E, 44.
1918 D, 461 ("alligator").
1923 A, 479.
1926 C, 2.
1927 D, 274, 286.
Higgins, G. M. 1923 A, 373-406, pls. i-vi.
Howes, G. B. 1891 A, 149, pl. xiv, figs. 4, 6.
Huene, F. 1913 F, 470, fig. 3.
Huxley, T. H. 1859 E, 446 (A. lucius).
Loomis, F. B. 1924 C, 506.
Lydekker, R. 1912 C, 55.
Matson and Clapp 1909 A, 137.
Moodie, R. L. 1908 D, 455.
Mook, C. C. 1921 B, 52, pl. xii; text-fig. 1.
1921 D, 101, figs. 1, 2.
1921 H, 253, fig. 14.
1923 A, 1-9, fig. 5.
1923 B, 553.
Nopcsa, F. 1923 H, 111.
Owen, R. 1845 B, 287.
1866 A, 408 (Champsa).
Reese, A. M. 1908 A, 1, pls. i-xxiii.
1910 A, 365 ("alligator").
Romer, A. S. 1923 B, 534, pls. xix-xxv.
Scharff, R. F. 1911 A, 179, 319.
Schmidt, W. J. 1914 B, 644.
Sellards, E. H. 1916 C, 139, 145.
Spencer, J. W. 1895 A, 137.
Stejneger and Barbour 1917 A, 41.
Strecker, J. K. 1915 A, 7.
Troedsson, G. T. 1924 A.
Troxell, E. L. 1925 B, 68, fig. 20.
Van Straelen, V. 1928 A, 309.
Versluys, J. 1903 A, 169.
Virchow, H. 1914 B, 106, figs. 1, 2, 5, 8-12.
1919 A, 321.
Voeltzkow and Döderlein 1901 A, 316.
Williston, S. W. 1914 A, 27, figs. 11, 99, 100.
1914 D, 412, fig. 12.
Zittel and Broili 1923 A, 212, 319 (A. lucius).

Recent; North Carolina to Rio Grande: Pleistocene; Texas, Florida.

Alligator thomsoni Mook.

Mook, C. C. 1923 A, 1-9, figs. 1-5.
Barbour, T. 1926 A, 110.
Matthew, W. D. 1924 C, 68.
Mook, C. C. 1923 B, 553.

Middle Miocene to Upper Pliocene; Nebraska.

Alligator sp. indet.

Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1923 A, 350. Pleistocene; Maryland.
1924 D, 3, 246. Pleistocene; Texas.
1927 D, 274. Pleistocene; Florida.
Matthew, W. D. 1918 A, 187, 224. Pliocene (Snake Creek); Nebraska.
1925 A, 97. Pleistocene (Earlier); Florida.
Merriam, J. C. 1917 A, 439. Pliocene? (Bone Valley); Florida.
Sellards, E. H. 1916 B, 90. Miocene (Fuller's Earth); Gadsden County, Florida.

BOTTOSAURUS Agassiz. Type *Crocodilus macrorhyncus* Harlan = *Bottosaurus harlani* Meyer.

Hay, O. P. 1902 A, 514.
Arldt, T. 1907 D, 90.
1911 A, 228.
Gilmore, C. W. 1910 A, 492.
1911 B, 298.
Mook, C. C. 1925 A, 330.
Nopcsa, F. 1928 A, 187.
Toula and Kail 1885 A, 354.
Troedsson, G. T. 1924 A, 8, 67.
Williston, S. W. 1906 A, 2-4.
1925 B, 290.
Zittel and Broili, 1911 A, 272.
1923 A, 331.
Zittel, Eastman, etc. 1902 A, 222.

Bottosaurus harlani (Meyer).

Hay, O. P. 1902 A, 514.
Gilmore, C. W. 1911 B, 297.
Lambe, L. M. 1907 C, 220.
Mook, C. C. 1925 A, 331, figs. 6-9 (B. harlani); 336 (Bottosaurus macrorhynchus).

Toula and Kail 1885 A, 354 (B. macrorhynchus, Crocodilus harlani).
Williston, S. W. 1906 A, 2.
Upper Cretaceous (Greensand); New Jersey.

Bottosaurus tuberculatus Cope.

Hay, O. P. 1902 A, 514.
Cope, E. D. 1875 E, 253.
Mook, C. C. 1925 A, 337.
Toula and Kail 1885 A, 354.
Williston, S. W. 1906 A, 3.
Upper Cretaceous (Greensand); New Jersey.

BRACHYCHAMPSA Gilmore. Type *B. montana* Gilmore.

Gilmore, C. W. 1911 B, 298.
Mook, C. C. 1925 A, 429, pls. iv, v; text-fig. 63.
Nopcsa, F. 1928 A, 187.
Troedsson, G. T. 1924 A, 67.
Williston, S. W. 1925 B, 290.

Brachychampsa montana Gilmore.

Gilmore, C. W. 1911 B, 298, pls. xxvi, xxvii; text-fig. 1.
Bowen, C. F. 1915 A, 130.
Brown, B. 1914 E, 358.
Gilmore, C. W. 1926 J, 28.
Mehl, M. G. 1916 B, 50.
Moodie, R. L. 1913 A, 186.
Mook, C. C. 1925 A, 429, pls. iv, v; text-fig. 63.
Upper Cretaceous (Hell Creek); Montana: (Lance); Wyoming.

Brachychampsa perrugosa (Cope).

Unless otherwise indicated the authors, as quoted, use for this species the generic name *Bottosaurus.*
Hay, O. P. 1902 A, 514.
Bowen, C. F. 1915 A, 128 (Brachychampsa).
Cope, E. D. 1874 B, 433, 452.
Gilmore, C. W. 1911 B, 298 (Brachychampsa).
Hatcher, J. B. 1905 B, 82.
Hay, O. P. 1903 D, 119.
Lambe, L. M. 1902 A, 48.
1902 B, 185.
1904 C, 25, 37, 49.
1905 D, 364 A.
1907 C, 219 X.
Osborn, H. F. 1902 H, 674.
1902 I, 13, 17.
Toula and Kail 1885 A, 354.
Whiteaves, J. F. 1901 A, 185.
Williston, S. W. 1906 A, 3 (Syn. of Crocodylus humilis).
Upper Cretaceous (Denver or Arapahoe); Colorado: (Belly River); Alberta.

Brachychampsa sp. indet.

Gilmore, C. W. 1916 D, 289. Upper Cretaceous (Kirtland); New Mexico.
1920 A, 8.
Reeside, J. B. 1924 A, 23. Upper Cretaceous (Kirtland); New Mexico.

CAIMANOIDEA Mehl. Type *C. visheri* Mehl.

Mehl, M. G. 1916 B, 47.
Nopcsa, F. 1928 A, 187.
Williston, S. W. 1925 B, 290.

Caimanoidea prenasalis (Loomis).

Loomis, F. B. 1904 A, 427, figs. 1-9 (Crocodylus).
Barbour, T. 1926 A, 110 (Alligator).
Lambe, L. M. 1905 D, 366 A (Crocodylus).
1908 A, 9, 21 (Crocodilus. This species?).
Matthew, W. D. 1918 G, 505, fig. ("Crocodilus." This species?).
Mehl, M. G. 1916 B, 56.
O'Harra, C. C. 1910 A, 122 (Crocodilus).
1920 A, 142, 160, fig. 74 (Crocodilus).
Oligocene (Lower White River); South Dakota: (Cypress Hills); Saskatchewan.

Caimanoidea visheri Mehl.

Mehl, M. G. 1916 B, 47 (Caimanoidea); figs. 1-4 (Caimanoideus).
O'Harra, C. C. 1920 A, 141, 160, fig. 75.
Oligocene (Lower White River); South Dakota.

CROCODILES OF UNCERTAIN RELATIONSHIPS.

PLIOGONODON Leidy. Type *P. priscus* Leidy.

Hay, O. P. 1902 A, 517.
Mook, C. C. 1925 A, 356.

Pliogonodon priscus Leidy.

Hay, O. P. 1902 A, 517.
Mook, C. C. 1925 A, 356, fig. 19.
Upper Cretaceous (Black Creek); North Carolina.

POLYDECTES Cope. Type *P. biturgidus* Cope.

Hay, O. P. 1902 A, 514.
Mook, C. C. 1925 A, 378.
Williston, S. W. 1925 B, 290.

Polydectes biturgidus Cope.

Hay, O. P. 1902 A, 514.
Gilmore, C. W. 1911 A, 208.
Mook, C. C. 1925 A, 378, fig. 35.
Stephenson, L. W. 1912 A, 120.
Upper Cretaceous (Black Creek); North Carolina: (Ripley); Georgia.

Order PTEROSAURI Kaup.

Hay, O. P. 1902 A, 506.
Abel, O. 1907 F, (253) ("pterosaurier").
1909 D, 222 ("flugsaurier").
1909 F, 470 ("pterosaurier").
1910 A, (146) ("pterosaurier").
1911 A, 145, 146 ("pterosaurier").
1912 E, 227 ("pterosaurier").
1912 F, 300, 390, 535, 695 (Pterosauria).
1919 A, 534, 559 (Rhamphorhynchoidea); 559, 631 (Pterodactyloidea).
1919 B, 661 ("flugsaurier").
1920 A, 382 (Rhamphorhynchoidea); 385 (Pterodactyloidea).
Anderson, R. J. 1912 D, 25 (Pterosauria).
Anthony, R. 1912 A ("ptérosauriens").
1913 A, 248 ("ptérosauriens").
Arldt, T. 1907 D, 677 (Pterosauria).
1912 A, 669, 678, 686 (Pterosauria).
Arthaber, G. 1906 A, 307 ("pterosaurier").
1919 A, 93 ("flugsaurier").
1921 A, 1-47 ("flugsaurier," Pterodactyli).
1921 B, 391-464 ("flugsaurier").
Baur, G. 1889 L, 312 (Pterosauria).
1894 B, 350 (Pterosauria).
Blainville, H. M. D. 1835 A, 238 (Pterodactylia).
1838 A, 365 ("ornithocéphale").
Boas, J. E. V. 1914 B, 563 ("pterosaurier").
Boule, M. 1902 B, 909 ("ptérosauriens").
Boulenger, G. A. 1904 C, 480 (Ornithosauria).
Branca, W. 1908 B ("flugthiere").
Branson, E. B. 1918 A, 9 ("pterodactyls").
Brauer, A. 1908 A, 92 ("flugsaurier").
Brauns, D. 1890 A, 161, 202 (Pterodactyli).
Bronn, H. G. 1848 B, 851 (Ornithocephalus).
1849 A, 833 (Pterodactyli).
Broom, R. 1906 C, 437 ("pterodactyles").
1906 D, 365 (Pterosauria).
1913 O, 631 ("pterodactyls").
1922 A, 17 ("pterosaurs").
1924 B, 64, fig. 13 (Pterosauria).
Carus, V. 1875 A, 402 (Pterosauria).
Case, E. C. 1898 C, 720 (Pterosauria).
1923 A, 517.
Claus, C. 1895 A, 363 ("pterosaurier").
Cope, E. D. 1885 BB, 69 (Pterosauria).
1891 N, 35, 41 (Ornithosauria).
Dabelow, A. 1926 A, 95 ("pterosaurier").
Dames, W. 1883 C, 268 ("flugsaurier").
1899 E, 554 (Pterosauria).
Depéret, C. 1907 B ("ptérodactyles").
1912 A, 705 ("ptérosauriens").
Döderlein, L. 1900 A, 335 (Pterosauria).
1900 B, 55 ("pterosaurier").
1923 A, 135 (Pterosauria).
Dollo, L. 1889 A, 664 ("ptérosauriens").
1889 E, 172 ("ptérosauriens").
1896 A, 83 ("ptérosauriens").
Eaton, G. T. 1910 A, 24 (Pterosauria).
Eimer, G. H. T. 1901 A, 261 ("pterosaurier").
Fitzinger, L. 1843 A, 35 (Ornithosauri).
Fraas, E. 1905 B, 374 ("pterosaurier").
Frassetto, F. 1915 A, 62.
Frech, F. 1906 A, 493 ("pterodactylen").
Fuchs, H. 1909 B, 114, 149 (Pterosauria).
Fürbinger, M. 1888 A, 1620 (Pterosauria).
Fürbinger, M. 1914 A (Pterosauria).
Gadow, H. 1901 B, 484 (Pterosauria); 486 (Pterosauri).
1902 B, 359 (Pterosauria).
1914 A, 504 ("pterosaurs").
Gegenbaur, C. 1879 A, 522 ("pterodactylen").
Gervais, P. 1852 A, 265 ("ptérodactyliens").
1853 B, 37 ("ptérodactyles").
1859 A, 469 ("ptérodactyliens").
Giebel, C. G. 1855 A, 87 (Pterosauria).
Gilmore, C. W. 1906 A, 607, pls. xxx, xxxi (Rhamphorhynchus).
Goldfuss, A. 1831 A (Pterodactylus).
Goodrich, E. S. 1916 A, 263 (Pterosauria).
Green, J. R. 1861 A, 219, 226 (Pterosauria).
Gregory, W. K. 1915 E, 448 ("pterosaurs").
Gregory and Adams 1915 A, 764 ("pterosaurs").
Haeckel, E. 1873 A, 512, 531 (Pterosauria).
Hankin and Watson 1914 A, 324 ("pterodactyls").
Heilmann, G. 1913 A, 55 (Pterosauria).
1916 A, 90.
1926 A, 146 ("pterosaurs").
Heilprin, A. 1887 A, 163, 172 (Pterosauria).
Hoernes, R. 1886 A, 624 (Pterosauria).
Hoffman, C. K. 1890 B, 1316 ("pterosaurier").
Hooley, R. W. 1913 A, 372, 412 (Ornithosauria).
Howes, G. B. 1902 A, 525 ("pterodactyles").
Howes and Swinnerton 1901 A, 2 (Pterosauria).
Huene, F. 1902 A, 65 ("flugsaurier").
1908 B, 356, 402 ("pterosaurien").
1908 F, 405 ("pterosaurier").
1913 E, 480 ("pterosaurier").
1914 G, 47 ("pterosaurier").
1914 H, 57 ("pterosaurien").
1922 E, 24 (Pterosauria).
1922 F, 409 ("pterosaurier").
1925 G, 316 ("flugsaurier").
1927 E, 326 ("flugsaurier").
Hutchinson, H. N. 1910 A, 199, pls. xxxii, xxxiii ("flying-dragons").
Huxley, T. H. 1855 A, 82 (Pterodactyla).
1862 A, xlviii (Pterosauria).
1870 F, 528 (Pterosauria).
1870 H, 494 (Pterosauria).
1879 A, 399 (Pterosauria).
Jaekel, O. 1904 A, 33 ("flugsaurier").
1905 B, 65 ("pterosaurier").
1910 C, 338, 340.
1910 E, 225.
1911 A, 165.
1915 B, 1.
1916 A, 201 ("pterosaurier").
Kehrer, F. A. 1896 A, 348 ("pterodactylen").
Kingsley, J. S. 1925 A, 5, 16, 51, 167, 255, 269 (Pterosauria).
Koken, E. 1886 B, 21 ("pterosaurier").
1893 B, 366 ("pterosaurier").
1901 B, 222 ("ornithosaurier").
Lankester, E. R. 1905 A, 231 ("pterodactyles").
Larger, R. 1913 A, 702, 711 ("ptérosauriens").
Lavocat, A. 1884 A, 1126 ("ptérosaures").
1885 A, 39 ("ptérosaures").
Lee, Stone, Gale 1915 A, 20 ("pterodactyls").
Leunis and Ludwig 1883 A, 597 (Pterosauria).
Lönnberg, E. 1910 E, 19.
Lucas, F. A. 1902 B, 209 ("pterodactyles").

Lull, R. S. 1906 B, 546 (Pterosauria).
1917 B, 367 ("pterodactyls").
1924 A, chart.
Lydekker, R. 1901 A, 645 ("pterodactyles").
1912 C, 4, 22, 28, 97, 129 (Ornithosauria).
1913 A, 12 ("pterodactyles").
1915 C, 626 ("pterodactyls").
Mantell, G. A. 1844 A, 762 ("pterosaurians").
Martins, C. 1872 A, 307 ("ptérodactyles").
Matthew, W. D. 1920 A, 74 ("pterodactyls").
Meckel, J. F. 1825 A, 407, 419, 420 (Ornithocephalus).
Meunier, S. 1903 A, 776 ("ptérosauriens").
Meyer, H. v. 1847 B, 72, 74 (Pterodactyli).
Moodie, R. L. 1915 I, 157 ("pterodactyls").
Newton, E. T. 1888 B, 436 ("pterosaurian").
Nopcsa, F. 1907 A, 224 ("pterosaurs").
1916 A, 418.
1917 A, 204 ("pterosaurier").
1922 A, 116 ("pterosaurier").
1922 B, 161 ("pterosaurier").
1923 D, 112 (Pterosauria).
1923 E, 1045 ("pterosaurians").
1923 H, 1, 10, 181, 182 (Pterodactyloidea); 5 (Ornithosauri); 2-4, 6, 8-10, 121, 175, 176, 180, 183, 184 (Pterosauria).
1924 B, 80 ("pterosaurier").
1928 A, 187 (Pterosauria).
Osborn, H. F. 1903 D, 313 ("pterosaurs").
1903 H, 454 (Ornithosauria); 456, 504 (Pterosauria).
1904 H, 114.
1904 N, 308 (Pterosauria).
1905 C, 295 (Pterosauria).
1905 N, 240 ("pterosaurs").
1917 D, 660 ("pterosaurs").
Owen, R. 1842 F, 73 (Pterodactyli).
1859 E, 703.
1868 A, 904 (Pterosauria).
1913 A, 248 ("pterosaurs").
Parker and Haswell 1897 A, 314, 348 (Pterosauria).
Petronievics, B. 1928 A, 214 ("flugsaurier").
Plieninger, F. 1901 A, 65, 88 (Pterosauria).
1906 A, 399 ("pterosaurier").
1906 B, ciii ("pterosaurier").
1907 A, 209, 294 ("pterosaurier").
Pompeckj, J. F. 1925 A, 6 ("flugtiere").
Reynolds, S. H. 1897 A, 271, 278, 552 (Pterosauria).
Ridewood, W. G. 1897 D, 190 (Ornithosauria).
Schuchert, C. 1915 A, 906 ("pterosaurs").
Seeley, H. G. 1887 E, 192 ("ornithosaurs").
1887 G, 206 ("ornithosaurs").
Seeley, H. G. 1888 I, 238 (Ornithosauria).
1899 B, 69 ("ornithosaurs").
1901 A, 187 (Ornithosauria).
Serres, M. 1852 A, 115 ("pterodactyles").
Sewertzoff, A. N. 1908 A, 248 (Pterosauria).
Short, H. 1914 A, 336 ("pterodactyls").
Spillman, F. 1925 A, 185 ("pterosaurier").
Steiner, H. 1922 A, 339 ("pterosaurier").
Steinmann, G. 1907 A, 452 (Pterosauria).
1908 A, 235 ("pterosaurier").
1910 A, 99 (Pterosauria).
Stromer, E. 1910 A, 85 ("pterosaurier").
1912 A, 90, 126 (Pterosauria).
1913 A, 49, 61 ("flugsaurier," Pterosauria).
Terra, P. 1911 A, 238 (Pterosaurii).
Tornier, G. 1913 B, 362, 374 (Pterosauria).
Van den Broeck, E. 1900 A, 70, 88 ("ptérosauriens").
Versluys, J. 1912 B, 650, 687 (Pterosauria).
Vogt, C. 1879 A, 243 ("ptérodactyles").
W. D. 1877 A, 124 (Pterodactylia).
Wagner, J. A. 1837 A, 165 (Ornithocephalus).
Wamich, P. 1913 A, 24 ("pterosaurier").
Wegner, R. N. 1922 A, 481.
Wilckens, O. 1911 A, 711 ("flugsaurier").
Williston, S. W. 1885 A, 628 (Pterodactylus).
1893 D, 110 ("pterodactyls").
1902 G ("winged reptiles").
1902 H, 67 ("pterodactyls").
1904 B, 176.
1904 C, 59 ("pterodactyls").
1905 D, 297 (Pterosauria).
1911 F, 661 (Pterosauria).
1913 E, 756 (Pterosauria).
1914 A, 18, 45.
1917 C, 412.
1918 A, 80 (Pterosauria).
1925 A, *passim* (Pterosauria).
1925 B, 214, 296 (Pterosauria).
Wiman, C. 1924 A, 115 ("flugsaurier").
1925 B, 15 ("flugsaurier").
1928 A, 363 ("flugsaurier").
Woodward, A. S. 1898 B, 224 (Ornithosauria).
1902 B, 1 (Ornithosauria).
1904 D, 148 (Pterosauria).
1910 B, 465 ("pterodactyls").
1922 C, 6 (Ornithosauria).
1923 A, 31 (Pterosauria).
Woodward, H. 1904 B, 148 (Pterosauria).
Young, G. W. 1915 A, 242 (Pterosauri).
Zittel and Broili 1911 A, 298 (Pterosauria).
1923 A, 367, 383 (Pterosauria).
Zittel, Eastman, etc. 1902 A, 246 (Pterosauria).

Suborder ORNITHOCEPHALIFORMES, new name.

Abel, O. 1909 F, 470 (Pterodactyloidea).
1921 A, 270, 279 (Pterodactyloidea).
Arthaber, G. 1921 A, 12 (Pterodactyloidea).
Broili, F. 1927 B, 29-48, pls. i-iii, vii; text-figs. 1-7 (Rhamphorhynchus).
1927 C, 49-65, pls. iv-vii.
Gadow, H. 1901 B, 486 (Pterodactyli).
Huene, F. 1914 G, pl. vii (Pterodactyloidea).
Nopcsa, F. 1922 A, 113, 114 (Pterodactyloidea).
1923 H, 120, 127, tab. (Pterodactyloidea).
Nopcsa, F. 1928 A, 188 (Pterodactyloidea).
Plieninger, F. 1901 A, 90 (Pterodactyloidea).
1907 A, 313 (Pterodactyloidea).
Seeley, H. G. 1901 A, 193 (Pterodactylia).
Williston, S. W. 1903 B, 158 (Pterodactyloidea).
1914 A, 18, 45 (Pterodactyloidea).
1925 B, 214, 298 (Pterodactyloidea).
Zittel and Broili 1911 A, 305 (Pterodactyloidea).
1923 A, 373 (Pterodactyloidea).

ORNITHOCEPHALIDÆ Hay.

Unless otherwise indicated the authors as quoted use the name Pterodactylidæ.

Hay, O. P. 1902 A, 506.
Abel, O. 1912 E, 233 ("pterodactyliden").
1912 F, 301.
1919 A, 567, figs. 444-446.
Arldt, T. 1912 A, 662.
Arthaber, G. 1919 B, 346 ("pterosaurier").
1921 A, 15, 32, fig. 15 (Pterodactylus).
Dames, W. 1899 E, 554.
Hoernes, R. 1886 A, 625.
Huxley, T. H. 1868 D, 308 ("pterodactyls").
Matthew, W. D. 1920 B, 73 ("flying reptiles").
Nopcsa, F. 1923 H, 118, 120, 126.
1928 A, 188.
Plieninger, F. 1901 A, 90.
1907 A, 313.
Pycraft, W. P. 1902 B, 314.
Van den Broeck, E. 1900 A, 106.
Williston, S. W. 1903 B, 158.
1925 B, 298.
Zittel and Broili 1911 A, 306.
1923 A, 376.
Zittel, Eastman, etc. 1902 A, 253.

ORNITHOCEPHALINÆ, new name.

Williston, S. W. 1892 A, 12 (Pterodactylinæ).

ORNITHOCEPHALUS Sömmering.

Unless otherwise indicated the authors, as cited, employ the name *Pterydactylus*.

Hay, O. P. 1902 A, 507 (Ornithocephalus).
Abel, O. 1909 D, 226.
1919 B, 661, figs. 2-6.
1921 A, 274, 276, figs. 98, 99, 101 (Ornithocephalus).
1925 A, 91, figs. 56, 60-65, 67-75.
1925 B, 1-12, figs. 1-4.
Arthaber, G. 1919 B, 391 (Ornithocephalus); 410, figs. 12-15, 31-34, 50, 51 (Pterodactylus).
1921 A, 15, 32, fig. 15.
Blainville, H. M. D. 1838 A, 365 ("ornithocéphale").
Branca, W. 1908 B, 16.
Broili, F. 1912 B, 493.
1919 A, 305.
1925 A, 23.
Bronn, H. G. 1848 B, 851 (Ornithocephalus).
Cuvier, G. 1825 A, v, 2, 350-383, pl. xxiii.
Dames, W. 1883 C, 269 (Ornithocephalus).
Dana, J. D. 1863 D, 131 ("pterodactyl").
Döderlein, L. 1900 B, 57.
Giebel, C. G. 1855 A, 87.
Goldfuss, A. 1831 A, 63.
Hoffmann, C. K. 1890 B, 1316.
Kingsley, J. S. 1925 A, 269, fig. 293.
Meckel, J. F. 1825 A, 407, 419, 420 (Ornithocephalus).
Münster, G. 1831 A, 49, pl. vi (Pterodactylus, Ornithocephalus).
Nopcsa, F. 1923 H, 118, 182, 199.
1928 A, 188.
Owen, R. 1845 B, 273.
1868 A, 903.
Plieninger, F. 1901 A, 90.
1906 A, 399.
1907 A, 261.
Pycraft, W. P. 1909 A, 204, fig.
Spillman, F. 1925 A, 187.
Stromer, E. 1913 A, 52.
Wagner, J. A. 1837 A, 165 (Ornithocepahlus).
Williston, S. W. 1902 L, 918.
1925 B, 298, fig. 189.
Wiman, C. 1925 A, 1-38, pls. i, ii, 23 figs.
Woodward, A. S. 1922 C, 8, fig. 4.
Zittel and Broili 1911 A, 306.
1923 A, 372, figs. 483, 487.
Zittel, Eastman, etc. 1902 A, 233.

DERMODACTYLUS Marsh. Type *Pterodactylus montanus* Marsh.

Hay, O. P. 1902 A, 507.
Dollo, L. 1889 A, 666.
Gilmore, C. W. 1928 B, 1.
Hoernes, R. 1886 A, 626.
Williston, S. W. 1903 B, 161.
1925 B, 298.

Dermodactylus montanus Marsh.

Hay, O. P. 1902 A, 507.
Gilmore, C. W. 1909 B, 39.
Mook, C. C. 1916 A, 149.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

PTERANODONTIDÆ Marsh.

Hay, O. P. 1902 A, 507.
Abel, O. 1911 A, 147 (Ornithocheiridæ).
1919 A, 570 (Ornithocheiridæ).
1922 C, 326 ("pteranodontiden").
Arldt, T. 1907 D, 677.
Brauns, D. 1890 A, 161, 202 (Pteranodontia).
Case, E. C. 1898 C, 723.
Cope, E. D. 1891 N, 41.
Dames, W. 1899 E, 554 (Ornithocheiridæ).
Dollo, L. 1889 E, 177 ("ptéranodontes").
Gadow, H. 1901 B, 487 (Pteranodontes).
Hoernes, R. 1886 A, 628.
Hooley, R. W. 1913 A, 416 (Ornithostomatidæ).
1914 A, 557 (Ornithostomatidæ).
Jaekel, O. 1910 C, 340.
Nopcsa, F. 1923 D, 112 (Ornithocheiridæ).
1923 E, 1048.
1923 H, 127, 183.
1928 A, 188.
Seeley, H. G. 1901 A, 193 (Ornithocheiroidea).
Steinmann, G. 1907 A, 455.
Van den Broeck, E. 1900 A, 75.
Williston, S. W. 1925 B, 298 (Pteranodontidæ, Ornithocheiridæ).
Zittel and Broili 1911 A, 306 (Ornithocheiridæ).
1923 A, 376 (Ornithocheiridæ).
Zittel, Eastman, etc. 1902 A, 254 (Ornithocheiridæ).

PTERANODONTINÆ Williston.

Williston, S. W. 1892 A, 12.
Abel, O. 1919 A, 571.
Nopcsa, F. 1923 H, 123, 183.
Plieninger, F. 1907 A, 313 (Ornithocheirinæ).
Tornier, G. 1913 B, 364 (Ornithocheirinæ).
Zittel and Broili 1911 A, 306 (Ornithocheirinæ).
 1923 A, 376 (Ornithocheirinæ).

PTERANODON Marsh. Type *P. longiceps* Marsh.

Hay, O. P. 1902 A, 507.
Abel, O. 1907 F (253).
 1909 F, 472.
 1910 A (143).
 1911 A, 147.
 1912 E, 227.
 1912 F, 301, 331, 513.
 1914 B, 70, figs. 20, 31.
 1914 C, 327, 393.
 1919 A, 574.
 1920 A, 385.
 1921 A, 301.
 1922 C, 329, 388.
 1925 A, 137, figs. 86, 90, 91.
Anthony, R. 1912 A.
Arthaber, G. 1919 B, 418, 453.
 1921 A, 21, 22, 39, fig. 12.
Beddard, F. E. 1898 A, 157.
Boule, M. 1891 A, 21.
Case, E. C. 1898 C, 723.
Cooper, B. G. 1914 A, 343.
Dames, W. 1899 E, 553 (Ornithostoma).
Delafontaine, M. 1877 B, 127 ("pteranodontes").
Depéret, C. 1907 B.
Döderlein, L. 1900 B, 57.
 1923 A, 134.
Dollo, L. 1888 F, 79.
 1889 A, 666.
 1889 E, 177.
Eaton, G. F. 1903 B, 82, pls. vi, vii.
 1904 A, 318, pl. xx.
 1908 A, 254.
 1910 A, 1, pls. i-xxxi.
Gilmore, C. W. 1928 B, 1.
Hankin and Watson 1914 A, 325.
Harlé and Harlé 1912 A, 119.
Heilmann, G. 1913 B, 70, 85, figs. 101, 104.
 1926 A, 61.
Heilprin, A. 1887 A, 169.
Hoernes, R. 1886 A, 628.
Hooley, R. W. 1913 A, 411, 416 (Ornithostoma).
 1914 A, 531 (Ornithostoma).
Huene, F. 1914 G, 44.
 1914 H, 62, fig. 8.
Ihde, —— 1912 A, 251.
Jaekel, O. 1916 A, 201.
Knipe, H. R. 1912 A, 104, fig.
Langley, S. P. 1902 A, 649 (Ornithostoma).
Lankester, E. R. 1905 A, 231, figs. 169, 170.
Larger, R. 1913 A, 711.
Lee, Stone, Gale 1915 A, pl. v, fig. C (Ornithostoma).
Lucas, F. A. 1902 A, 654 (Ornithostoma).
 1902 B, 210, fig. (Ornithostoma).
 1902 D, 657.
Lull, R. S. 1906 B, 546, fig. 7.
 1919 A, 223.
Lydekker, R. 1912 C, 136.
 1913 A, 12 ("pterodactyles").
Matthew, W. D. 1916 E, 251, fig.
Matthew, W. D. 1920 B, 73, figs. 1, 4.
Moodie, R. L. 1913 A, 185.
Noack, T. 1880 A, 77.
Nopcsa, F. 1916 A, 418.
 1922 B, 168, 174.
 1923 E, 1049, fig. 8.
 1923 G, 110.
 1923 H, 116-118, pl. iii, fig. 5.
 1928 A, 188.
Osborn, H. F. 1917 B, 226.
Perrier, E. 1920 A, 322.
Plieninger, F. 1901 A, 76, 90, pl. v.
 1902 A, 411.
 1907 A, 283, 313.
Pycraft, W. P. 1909 A, 205, fig.
Reynolds, S. H. 1897 A, 274, 289.
Sauvage, H. E. 1901 B, 12.
Schuchert and Levene 1927 A, 294, fig.
Seeley, H. G. 1901 A, 180, 184 (Ornithostoma).
Seitz, A. L. L. 1907 A, 350.
Short, H. 1914 A, 341, figs. 1-5.
Sternberg, C. H. 1907 C, 122.
 1909 C, 266.
 1911 A, 71.
 1917 A, 164 ("pteranodonts").
Stromer, E. 1913 A, 53.
Tornier, G. 1913 B, 364, fig. 43.
Van den Broeck, E. 1900 A, 75.
Versluys, J. 1912 B, 651.
Wieland, G. R. 1912 A, 287.
 1912 B, 300.
Williston, S. W. 1902 B, 297, 305.
 1902 C, 521 (Ornithostoma).
 1902 G, 316, 317, text-figs. 1, 2, 4.
 1902 H, 68 (Ornithostoma).
 1903 B, 129.
 1904 C, 60.
 1908 C, 718.
 1911 E, 700.
 1912 B, 642.
 1912 D, 288.
 1913 E, 754.
 1925 A, *passim*, figs. 71, 72, 73, 155.
 1925 B, 298.
Wiman, C. 1920 A, 9.
 1924 A, 123.
Woodward, A. S. 1896 D, 257.
 1898 B, 229.
 1902 B, 3.
 1922 C, 7.
 1923 A, 31.
Woodward, H. 1904 D, 149.
Young, G. W. 1915 A, 246, fig. 17.
Zittel and Broili 1911 A, 307.
 1923 A, 377.

Pteranodon comptus Marsh.

Hay, O. P. 1902 A, 507.
Eaton, G. F. 1910 A, 2.

Williston, S. W. 1903 B, 154.
Upper Cretaceous (Niobrara); Kansas.
Eaton says "no longer valid." However, two vertebræ of the type specimens, No. 2287, are not accounted for.

Pteranodon ingens Marsh.

Hay, O. P. 1902 A, 508.
Abel, O. 1907 F (253).
1909 F, 472, fig. 9.
1912 F, 332, 540, 695, figs. 243, 244.
1919 A, 574, figs. 450-452.
1920 A, 384, fig. 601.
1922 C, 327, fig. 286.
1925 A, 137, 140, figs. 86-91.
Arthaber, G. 1919 B, 430, 455, figs. 47, 57.
Dames, W. 1899 E, 554 (Ornithostoma).
Döderlein, L. 1923 A, 127.
Eaton, G. F. 1910 A, 1, 9, pl. ii, fig. 1; pl. iii, fig. 1; pl. iv, figs. 1, 2; pl. v, fig. 3; pl. vi, figs. 1, 12-15; pls. x, xi; pl. xvi, fig. iv; pl. xvii, fig. 1; pl. xix, figs. 1-8; pl. xxviii, figs. 4, 5.
Lambe, L. M. 1914 H, 402.
Lucas, F. A. 1902 D, 657, pls. vi, vii; text-fig. 1 (Ornithostoma).
Plieninger, F. 1906 A, 411, fig. 5.
Sternberg, C. H. 1913 A, 48.
Versluys, J. 1912 B, 651, fig. O².
Williston, S. W. 1902 B, 301 (Ornithostoma).
1903 B, 145, pl. xliii, figs. 1-3; pl. xliv, fig. 8; text-fig. 2.
Upper Cretaceous (Niobrara); Kansas.

Pteranodon longiceps Marsh.

Hay, O. P. 1902 A, 508.
Eaton, G. F. 1904 A, 318, pl. xix.
1910 A, 2, 3.
Koken, E. 1893 B, 435.
Lull, R. S. 1917 B, 360, fig. 86.
Upper Cretaceous (Niobrara); Kansas.

Pteranodon occidentalis Marsh.

Hay, O. P. 1902 A, 508.
Dollo, L. 1889 E, 177.
Eaton, G. F. 1910 A, 1, 14, pl. iii, fig. 2; pl. xix, figs. 9-19; pl. xxiv, figs. 3, 4.
Newberry, J. C. 1871 B, 241 (Pterodactylus).
Williston, S. W. 1903 B, pl. xliv, fig. 4.
Woodward, A. S. 1922 C, 7.
Young, G. W. 1915 A, 247, fig. 18.
Upper Cretaceous (Niobrara); Kansas.

Pteranodon? oregonensis Gilmore.

Gilmore, C. W. 1928 B, 2, figs. 1, 2.
Upper Cretaceous (Upper Chico or Lower Horsetown); Oregon.

Pteranodon velox Marsh.

Hay, O. P. 1902 A, 508.
Eaton, G. F. 1910 A, 2 (Valid species?).
Upper Cretaceous (Niobrara); Kansas.

Pteranodon sp. indet.

Wiman, C. 1920 A, 9, pl. ii; text-fig. 1. Upper Cretaceous (Niobrara); Kansas.

NYCTOSAURINÆ Plieninger.

Plieninger, F. 1907 A, 313.
Hay, O. P. 1902 A, 508 (Nyctosauridæ).
Abel, O. 1919 A, 571.
Dames, W. 1899 E, 554 (Nyctodactylinæ).
Hooley, R. W. 1913 A, 416.
Nopcsa, F. 1923 H, 127.
Sauvage, H. E. 1901 B, 13 (Nyctodactylinæ).
Williston, S. W. 1925 B, 298 (Nyctosauridæ).
Zittel and Broili 1911 A, 307.
1923 A, 378.

NYCTOSAURUS Marsh. Type *Pteranodon gracilis* Marsh.

Hay, O. P. 1902 A, 508.
Abel, O. 1912 F, 334, 688.
1919 A, 571.
Arthaber, G. 1921 A, 1, 43, fig. 38.
Branca, W. 1908 B, 13.
Case, E. C. 1898 C, 724 (Nyctodactylus).
Döderlein, L. 1923 A, 128 (Nyctodactylus).
Dollo, L. 1889 A, 666 (Nyctodactylus).
Eaton, G. F. 1903 B, 83 (Nyctodactylus).
1904 A, 318 (Nyctodactylus).
1910 A, 8, 23.
Gilmore, C. W. 1928 B, 1 (Nyctodactylus).
Hooley, R. W. 1913 A, 411, 416.
Huene, F. 1914 G, 44.
1914 H, 57.
Lucas, F. A. 1902 B, 216 (Nyctodactylus).
Lull, R. S. 1919 A, 223 (Nyctodactylus).
Matthew, W. D. 1920 B, 79.
Nopcsa, F. 1907 A, 226, fig. 77 (Nyctodactylus).
1922 B, 169.
1923 H, 12, 13, 116-118 (Nyctosaurus); 201, pl. iii, fig. 6 (Nyctodactylus).
1928 A, 188.
Plieninger, F. 1901 A, 81, 90 (Nyctodactylus).
1906 A, 411, figs. 6, 7.
1907 A, 313.
Sauvage, H. E. 1901 B, 12 (Nyctodactylus).
Stromer, E. 1910 A, 85 (Nyctodactylus).
1913 A, 60.
Tornier, G. 1913 B, 364.
Versluys, J. 1912 B, 651.
Williston, S. W. 1902 B, 297 (Nyctodactylus).
1902 C, 520, pls. i, ii ("Nyctodactylus").
1902 H, 8 (Nyctodactylus).
1903 B, 125, 157.
1904 C, 59 ("pterodactyls").
1908 C, 718.
1911 E, 696.
1918 A, 79, fig. 3.
1925 A, 89, 103, 138, 145, 147, 148, 196, figs. 72, 80, 94, 109, 118.
1925 B, 298, figs. 190, 191.
Young, G. W. 1915 A, 247.
Zittel and Broili 1911 A, 307.
1923 A, 378.
Zittel, Eastman, etc. 1902 A, 253 (Nyctodactylus).

Nyctosaurus gracilis Marsh.

Hay, O. P. 1902 A, 508.
Abel, O. 1919 A, 572, fig. 448.

Arthaber, G. 1919 B, 429 (Nyctosaurus); 436, 444, 455, figs. 36, 47 (Nyctodactylus).
Broili, F. 1919 A, 304.
Heilman, G. 1913 B, 71, figs. 99, 101.
Huene, F. 1914 H, 57, figs. 1, 7.
Lambe, L. M. 1914 H, 402.
Williston, S. W. 1902 B, 297, plate ("Nyctodactylus").
  1903 B, 157, pls. xl-xlii; pl. xliii, figs. 4-11; pl. xliv, figs. 1-3, 5-7; text-fig. 1.
  1911 E, 697, fig. 1.
Zittel and Broili 1911 A, 307, fig. 456.
  1923 A, 378, fig. 489.
  Upper Cretaceous (Niobrara); Kansas.

Nyctosaurus nanus (Marsh).

Hay, O. P. 1902 A, 508 (Pteranodon).
Eaton, G. F. 1910 A, 3.
Williston, S. W. 1903 B, 154 (Pteranodon).
  Upper Cretaceous (Niobrara); Kansas.

TRIBELESODONTIDÆ Nopcsa.

Nopcsa, F. 1922 B, 179.

RHABDOPELIX Cope. Type *R. longispinis* Cope.

Hay, O. P. 1902 A, 461.
Nopcsa, F. 1922 B, 166, 179.
Parks, W. A. 1927 A, 10.
  A genus of uncertain family.

Rhabdopelix longispinis Cope.

Hay, O. P. 1902 A, 461.
Huene, F. 1921 B, 572, figs. 19, 20 (This genus and species?).
Lyman, B. S. 1894 A, 212.
Wherry, E. T. 1912 A, 377.
  Triassic (Newark); Pennsylvania.

REPTILE OF UNCERTAIN FAMILY

APATOMERUS Williston. Type *A. mirus* Williston.

Williston, S. W. 1903 B, 160.
Zittel and Broili 1923 A, 378.
  A genus of very uncertain position.

Apatomerus mirus Williston.

Williston, S. W. 1903 B, 160.
  1894 B, 4, pl. i, fig. 4 ("Hyposaurus?").
  1898 D, 76, fig. 3 ("Hyposaurus?").
  Lower Cretaceous (Comanche); Kansas.

Superorder DINOSAURIA Owen.

Hay, O. P. 1902 A, 481.
Abel, O. 1904 B, 741.
  1909 C, (117) ("dinosaurier").
  1909 D, (222) ("dinosaurier").
  1909 F, 458 ("dinosaurier").
  1910 B, (186).
  1910 C, (231) ("dinosaurier").
  1911 A, 144 ("dinosaurier").
  1912 A, 47 ("dinosaurien").
  1912 F, 269, 292, 668.
  1916 A, 469.
  1919 A, 576.
  1920 A, 385.
  1921 A, 182, 251, 264 ("dinosaurier").
  1924 A, 709 ("dinosaurier").
  1926 B, 38 ("dinosaurier").
Agassiz, L. 1845 B, 300 ("dinosaurians").
Altmann, F. 1925 A, 87 ("dinosaurier").
Ameghino, F. 1897 B, 257.
  1904 B, 13 ("dinosaurios").
  1906 A, 77 ("dinosauriens").
  1912 A, 47 ("dinosaurien").
Andreae, A. 1903 A, 150 ("dinosaurier").
Andrews, C. W. 1903 C, 1 ("dinosaurs").
Anonymous 1909 A, 198.
Anthony, R. 1912 A ("dinosaurien").
Arldt, T. 1907 C, 676.
  1907 D, 650.
  1909 A, 261 ("dinosaurier").
Arthaber, G. 1906 A, 307 ("dinosaurier").
Baird, S. F. 1876 A, 311.
Baur, G. 1889 L, 312.
Beard, J. C. 1901 A, 184 ("dinosaurs").
Beebe, C. W. 1906 A, 487 ("dinosaurs").
Bigot, A. 1897 A, 462 ("dinosauriens").
Bittner, F. 1912 A, 14 ("dinosaurier").
Boas, J. E. V. 1914 B, 561.
  1914 C, 276 ("dinosaurier").
Boule, M. 1891 A, 11 ("dinosauriens").
  1902 B, 906 ("dinosauriens").
Boulenger, G. A. 1903 A, 357.
  1904 C, 480.
  1917 C, 456 ("dinosauriens").
Branson, E. B. 1918 A, 92 ("dinosaurs").
Brauns, D. 1890 A, 186, 201, 202 (Deinosauria).
Braus, H. 1906 A, 276 ("dinosaurier").
Broili, F. 1908 A, 5 ("dinosaurier").
Bronn, H. G. 1849 A, 846, seq. ("pachypoden").
Broom, R. 1903 I, 554.
  1906 C, 437 ("dinosaurs").
  1906 D, 362 ("dinosaurs").
  1913 G, 345 ("dinosaurs").
  1913 O, 629 ("dinosaurs").
  1917 A, 977.
  1922 A, 17 ("dinosaurs").
  1927 A, 74 ("dinosaurs").
Brown, B. 1919 A, 425 ("dinosaurs").
Burroughs, J. 1919 A, 491 ("dinosaurs").
Carus, V. 1875 A, 403.
Case, E. C. 1897 D, 87 ("dinosaurs").
  1898 C, 630.
  1923 A, 517.
Cleland, J. 1887 A, 391 ("dinosaurs").
Cope, E. D. 1891 N, 35, 41.

Dames, W. 1883 C, 271 ("dinosauriens").
Depéret, C. 1896 A, 181 ("dinosauriens").
1912 A, 703 ("dinosauriens").
Diener, C. 1909 A, 41 ("dinosaurier").
Döderlein, L. 1900 A, 335.
Dollo, L. 1883 G, 594.
1889 G, 675 ("dinosauriens").
1889 H, 676 ("dinosauriens").
1905 B, 251 ("dinosauriens").
1906 A, 441 ("dinosauriens").
1906 C, 3 ("dinosauriens").
1923 B, 68 ("dinosauriens").
Dopp, K. E. 1904 A, 21 ("dinosaurs").
Douglass, E. 1902 C, 212 ("dinosaurs").
Du Toit, P. J. 1913 A, 245 ("dinosaurier").
Eastman, C. R. 1911 B, 183 ("dinosaurs").
1912 C, 658 ("dinosaurs").
1914 B, 688 ("dinosaurs").
Eimer, G. H. T. 1901 A, 257 ("dinosaurier").
Finn, F. 1894 B, 453 ("dinosaurs").
Fraas, E. 1902 A, 76.
1902 C, lxvii ("dinosaurier").
1904 C, 43 ("dinosaurier").
1905 B, 372 ("dinosaurier").
1910 B, xciii ("dinosaurier").
1911 B, 27 ("dinosaurier").
1913 D, lxiv ("dinosaurier").
Frassetto, F. 1915 A ("dinosauri").
Frech, F. 1906 A, 493 ("dinosaurier").
Fuchs, H. 1909 B, 149.
1910 C, 473 ("dinosaurier").
1911 B.
Fürbringer, M. 1902 B, 727 ("dinosaurier").
1904 A.
Gadow, H. 1896 C, 204 ("dinosaurs").
1901 B, 412.
1902 B, 347, 359 ("dinosaurs").
1914 A, 508 ("dinosaurs").
Gaudry, A. 1888 A, 3 ("dinosauriens").
Gervais, P. 1859 A, 467.
Giebel, C. G. 1855 A, 86.
Gill, T. N. 1876 A, 153.
Gilmore, C. W. 1915 C, 52 ("dinosaurs").
1920 A, 64.
Goodrich, E. S. 1916 A, 262.
Gratacap, L. P. 1902 A, 5 ("dinosaurs").
Greene, J. R. 1861 A, 219, 226.
Gregory, W. K. 1913 B, 243 ("dinosaurs").
1913 E, 10 ("dinosaurs").
1915 E, 448 ("dinosaurs").
1916 C, 31 ("dinosaurs").
1919 A, 18 ("dinosaurs").
1927 D, 225 ("dinosaurs").
Gregory and Adams 1915 A, 764 ("dinosaurs").
Haeckel, E. 1868 A, 441, 455.
1873 A, 512, 531.
Hanson, F. B. 1920 B, 332.
Hares, C. J. 1917 A, 429 ("dinosaurs").
Hase, A. 1913 A, 133 ("dinosaurier").
Hatcher, J. B. 1905 B, 102.
1907 A, 10.
Hay, O. P. 1910 C, 1 ("dinosaurs").
Heilmann, G. 1913 B, 7, 50.
1916 A, 80.
1926 A, 204 ("dinosaurs").
Heilprin, A. 1887 A, 416.
Hennig, E. 1912 B, 96 ("dinosaurier").
1924 A, 115.
Hilzheimer, M. 1913 A, 515 ("dinosaurier").
Hoernes, R. 1886 A, 611.
Holland, W. J. 1912 A, 204 ("dinosaurs").
Howes, G. B. 1894 A, 87 ("dinosaurs").
Howes and Swinnerton 1901 A, 2, 69.
Huene, F. 1901 B, 89 ("dinosaurier").
1902 A, 65, 72.
1905 B, 345 ("dinosaurier").
1906 C, 337 ("dinosaurier").
1908 B.
1908 E, 378 ("dinosaurier").
1908 F, 401 ("dinosaurier").
1909 B, 13.
1911 D, 47 ("dinosaurier").
1913 E, 480 ("dinosaurier").
1914 A, 145.
1914 B, 444.
1914 C, 577 ("dinosaurier").
1914 D, 154 ("dinosaurier").
1914 G, 41 ("dinosaurier").
Hutchinson, H. N. 1910 A, 127.
Huxley, T. H. 1855 A, 82 (Pachypoda).
1862 A, xlviii.
1868 D, 309.
1869 E, 573.
1869 F, 574.
1869 I, 395.
1869 J, 91.
1869 K, 146 (Dinosauria, Ornithoscelida).
1870 E, 78.
1870 F, 532 (Ornithoscelida).
1870 G, 465.
1870 H, 487.
1870 I, 23.
1876 F, 181.
Jaekel, O. 1901 B, 53 ("dinosaurier").
1905 B, 65 ("dinosaurier").
1908 B, 467 ("dinosaurier").
1909 C, 706 ("dinosaurier").
1910 C, 338 (Dinosauri).
1911 A, 157 (Dinosauri).
1912 A, 611 ("dinosaurier").
1913 A, 83, fig. 3 ("dinosaurier").
1913 B, 194 ("dinosaurier").
1914 A ("dinosaurier").
1915 A, 99 ("dinosaurier").
1915 B, 7 ("dinosaurier").
Janesch, W. 1914 A ("dinosaurier").
Johnson, A. 1883 A, 405 ("dinosaurs").
Kehrer, F. A. 1896 A, 348 ("dinosaurier").
Kingsley, J. S. 1912 B, 93 ("dinosaurs").
Knowlton, F. H. 1909 A, 229 ("dinosaurs").
1914 A, 337.
Koken, E. 1886 B, 22 ("dinosaurier").
1893 B, 271, 364, 390, 432 ("dinosaurier").
1900 A, 462 ("dinosaurs").
Lafitte, J. P. 1905 A, 407 ("dinosauriens").
Lambe, L. M. 1901 B, 182.
Lankester, E. R. 1905 A, 192 ("dinosaurs").
Larger, R. 1913 A, 702 ("dinosauriens").
Lavocat, A. 1885 A, 39 ("dinosauriens").
Lebedinsky, N. G. 1913 A, 767 ("dinosaurier").
1913 B, 196 ("dinosaurier").
Lee, W. T. 1901 A, 350 ("dinosaurs").
1913 A, 531 ("dinosaurs").
1915 A, 308 ("dinosaurs").
1924 A, xii ("dinosaurs").
Leunis and Ludwig 1883 A, 596.

- Lucas, F. A. 1901 F, 482.
  - 1901 H, 586 ("dinosaurs").
  - 1901 J, 39, 90 ("dinosaurs").
  - 1902 B, 139 ("dinosaurs").
  - 1902 C, 641 ("dinosaurs").
- Lull, R. S. 1904 A, 486.
  - 1910 A, 1.
  - 1911 B, 173 ("dinosaurs").
  - 1912 A, 208 ("dinosaurs").
  - 1915 A, 117.
  - 1917 A, 471 ("dinosaurs").
  - 1917 B, 294, 322, 501, 504.
  - 1918 C, 129 ("dinosaurs").
  - 1924 A, 225-279.
- Lydekker, R. 1903 D, 75.
  - 1908 B, 544.
  - 1909 C, 462 ("dinosaurs").
  - 1912 C, 4, 22, 29.
- McGregor, J. H. 1906 A, 86.
- Mantell, G. A. 1844 A, 729.
- Marsh, O. C. 1899 C, 72 ("dinosaurs").
- Matthew, W. D. 1910 G, 151 ("dinosaurs").
  - 1915 A, 181, 275.
  - 1915 C ("dinosaurs").
  - 1919 A, 492 ("dinosaurs").
  - 1923 C, 404, 408 ("dinosaurs").
- Meunier, S. 1903 A, 776 ("dinosauriens").
- Meyer, H. 1830, Isis, XXIII, 518 (No systematic name).
  - 1845 C, 281 (Pachypodes).
- Moodie, R. L. 1909 G, 363.
  - 1915 D, 288 ("dinosaurs").
  - 1915 I, 139 ("dinosaurs").
  - 1916 B, 86 ("dinosaurs").
  - 1916 F, 36 ("dinosaurs").
- Mook, C. C. 1918 A, 467.
- Mudge, B. F. 1879 A, 224 ("dinosaurs").
- Nopcsa, F. 1901 A.
  - 1901 B, 194.
  - 1902 C, 173.
  - 1903 B, 476 ("dinosaurier").
  - 1904 A, 235 ("dinosaurier").
  - 1905 A, 203 ("dinosaurs").
  - 1905 B, 241 ("dinosaurs").
  - 1905 C, 289.
  - 1907 A, 231 ("dinosaurs").
  - 1912 A, 481 ("dinosaurs").
  - 1914 A, 564 ("dinosaurier").
  - 1915 A, 385 ("dinosaurier").
  - 1915 B, 1 ("dinosaurier").
  - 1917 A, 203, 205.
  - 1917 B, 332 ("dinosaurier").
  - 1918 A, 186 ("dinosaurier").
  - 1918 B, 235 ("dinosaurier").
  - 1922 A, 115.
  - 1923 C, 463 ("dinosaurs").
  - 1923 D, 100-116.
  - 1923 E, 1045 ("dinosaurs").
  - 1923 H, 1-3, 5, 6, 8, 85, 109, 125, 171, 174-176, 180, 183, 187, 188, tab.
  - 1924 B, 85 ("dinosaurier").
  - 1926 A, 634.
  - 1928 A, 182.
- Osborn, H. F. 1903 D, 313 ("dinosaurs").
  - 1903 H, 454, 456, 466, 504.
  - 1904 H, 113.
  - 1904 Q, 680 ("dinosaurs").
  - 1905 C, 295.
- Osborn, H. F. 1915 E, 131.
  - 1917 B, 210-225.
  - 1922 D, 724 ("dinosaurs").
  - 1924 L, 140 ("dinosaurs").
- Oswald, F. 1911 A, 403 ("dinosaurians").
- Owen, R. 1842 F, 81, 87.
  - 1866 A, 18, 70.
- Palacký, J. 1902 B, 140 ("dinosaurier").
- Parker, W. K. 1887 B, 53 (Ornithoscelida).
  - 1890 A, 44 ("dinosaurs").
- Parker and Haswell 1897 A, 314.
- Peale, A. C. 1876 A, 153.
- Philippi, Frech and Volz 1903 A, 19 ("dinosaurier").
- Pictet, F. J. 1853 A, 466 ("dinosauriens").
- Pleininger, F. 1901 A, 88 ("dinosaurier").
- Pompeckj, J. F. 1920 A, 109 ("dinosaurier").
- Reynolds, S. H. 1897 A, 272, 538.
- Rice and Gregory 1906 A, 175 ("dinosaurs").
- Riggs, E. S. 1901 B, 272 ("dinosaurs").
  - 1903 C, 168.
- Riggs and Farrington 1902 A, 22062 ("dinosaurs").
- Romer, A. S. 1923 A, 141.
  - 1923 C, 605 ("dinosaurs").
  - 1927 C, 225 ("dinosaurs").
- Roth, S. 1908 A, 94 ("dinosaurier").
- Sabatier, A. 1902 A, 100 ("dinosaures").
- Schaffer, F. X. 1912 A ("dinosaurier").
- Schuchert, C. 1913 A, 34 ("dinosaurs").
  - 1914 B, 282 ("dinosaurs").
  - 1915 A, 827 ("dinosaurs").
  - 1918 B, 261 ("dinosaurs").
- Schuchert and Barrel 1914 A, 24 ("dinosaurs").
- Seeley, H. G. 1876 C, 159.
  - 1882 A, 366.
  - 1887 D, 337 ("dinosaurs").
  - 1887 E, 191.
  - 1889 B, 69 ("dinosaurs").
  - 1904 A, 342 ("dinosaurs").
- Sewertzoff, A. N. 1908 A.
- Sinclair and Granger 1914 A, 301 ("dinosaurs").
- Stanton, T. W. 1909 A.
- Steiner, H. 1922 A, 346 ("dinosaurier").
- Steinmann, G. 1907 A, 446.
  - 1910 A, 98 ("dinosaurier").
  - 1922 A, 240 ("dinosaurier").
- Sternberg, C. M. 1921 A, 61.
- Stremme, H. 1909 A, 505 ("dinosaurier").
- Stromer, E. 1912 A, 83, 125.
- Terra, P. 1911 A, 241.
- Thevenin, A. 1909 A, 1226 ("dinosauriens").
- Thompson, A. H. 1906 A, 262 ("dinosaurs").
- Tolmachoff, I. 1924 A, 489.
- Tornier, G. 1909 B, 513 ("dinosaurier").
  - 1913 B, 366.
- Tornquist, A. 1897 A, 683 ("dinosaurier").
- Vallois, H. V. 1921 A, 971 ("dinosauriens").
- Van den Broeck, E. 1900 A, 81 ("dinosauriens").
- Versluys, J. 1901 B, 175 ("dinosaurier").
  - 1910 B, 175 ("dinosaurier").
  - 1911 A, 138 ("dinosaurier").
  - 1912 A, 491, 494 ("dinosaurier").
  - 1912 B, 573, 653.
- Vogt, C. 1879 A, 247 ("dinosauriens").
- Wamich, P. 1913 A, 25.
- Watson, D. M. S. 1916 C, 611 ("deinosaurs").
- Weidenreich, F. 1925 A, 37 ("dinosaurier").

White, C. A. 1885 A, 56 ("dinosaurians").
Whitnal, H. O. 1925 A, 1-26.
Wieland, G. R. 1907 A, 66 ("dinosaurs").
1912 A, 288.
1912 B, 299.
1925 A, 601 ("dinosaurs").
1925 B, 557.
Wilckens, O. 1911 A, 705 ("riesensaurier").
Williston, S. W. 1879 A, 457 ("dinosaurs").
1904 B, 176.
1909 A, 396 ("dinosaurs").
1911 F, 661.
1914 A, 18, 45.
1915 D, 124 ("dinosaurs").
Williston, S. W. 1917 C, 412.
1925 A, *passim*.
1925 B, 214, 291.
Wiman, C. 1916 D, 413 ("dinosaurians").
Woodward, A. S. 1897 C, 379 ("dinosaurs").
1909 A, 325 ("dinosaurs").
1910 B, 464 ("dinosaurs").
1922 C, 16.
Woodward, H. 1904 B, 145.
Wright, W. 1909 A, 673 ("dinosaurs").
Zittel, K. A. 1897 A, 128 ("dinosaurien").
Zittel and Broili 1911 A, 273.
1923 A, 332, 383.
Zittel, Eastman, etc. 1902 A, 223.

Order SAURISCHIA Seeley.

Seeley, H. G. 1888 B, 699.
Abel, O. 1911 A, 159, 171.
1912 F, 405.
1916 A, 471.
1919 A, 576 (Saurischia); 584 (Pachypodosauria).
1920 A, 390 (Pachypodosauria).
Arldt, T. 1909 A, 261 ("saurischier").
1912 A, 668, 678.
Boas, J. E. V. 1914 B, 562.
Cope, E. D. 1891 N, 43.
Drevermann, F. 1911 A, 274.
Gilmore, C. W. 1924 H, 3.
Gregory, W. K. 1919 A, 18.
Haeckel, E. 1873 A, 531 (Harpagosauria).
Huene, F. 1908 B, 405.
1908 D, 294.
1909 B, 13.
1914 A, 145 (Saurischia); 146 (Pachypodosauria).
1914 B, 444.
1914 C, 577.
1914 D, 154.
1914 G, 22 (Saurischia); 37 (Pachypodosauria).
1914 I, 69.
1914 K, 11 (Saurischia); 12 (Pachypodosauria).
1915 B, 1 ("saurischier").
1919 A, 181.
1921 D, 395.
1922 E, 24.
1922 F, 410.
1923 A, 449.
1926 B, 35-167.
1926 D, 473
1927 E, 326.
1927 F, 103 ("saurischier").
Jaekel, O. 1910 C, 339 (Præpubici).
1911 A, 158 (Præpubici).
Lull, R. S. 1915 A, 117.
1917 B, 294, 504, 506 (Saurischia); 505, 508 (Pachypodosauria).
1924 A, 228.
Matthew, W. D. 1915 C, 32 (Saurischia, Pachypodosauria).
1921 D, 211.
1923 C, 408.
Nopcsa, F. 1911 A, 111.
1915 B, 1.
1917 A, 204.
1917 B, 337.
1918 B, 235.
1922 A, 115, 116.
1923 H, 9-179.
1928 A, 182.
Romer, A. S. 1923 A, 141.
1923 C, 605, fig. 1.
Seeley, H. G. 1887 F, 562 (Cetiosauria).
1888 C, 86 (Saurischia).
1888 G, 171.
1889 A, 286.
1892 C, 188.
1894 B, 233.
1894 D, 412.
Steiner, H. 1922 A, 339.
Steinmann, G. 1909 A, 67.
1910 A, 99.
Stromer, E. 1915 B, 28.
Van den Broeck, E. 1900 A, 101.
Watson, D. M. S. 1917 C, 180.
Williston, S. W. 1917 C, 414.
1925 A, 118, 150, 154.
1925 B, 214, 291.
Zittel and Broili 1911 A, 278.
1923 A, 340.

Suborder THEROPODA Marsh.

Hay, O. P. 1902 A, 487.
Abel, O. 1910 C, 231 ("theropoden").
1911 A, 157, 161, 171.
1912 E, 224 ("theropoden").
1912 F, 276, 292, 704.
1916 A, 473 ("theropoden").
1919 A, 591.
1920 A, 386.
Ameghino, F. 1906 A, 39.
Arldt, T. 1907 D, 685.
Arthaber, G. 1910 A, 553.
Bigot, A. 1897 A, 463 ("théropodes").
Bittner, F. 1912 A, 17 ("theropoden").
Broom, R. 1913 J, 364.
1914 H, 1076 ("theropodous dinosaurs").
1924 B, 64, fig. 13.
Case, E. C. 1897 D, 88.
1898 C, 632.
Depéret, C. 1912 A, 705 ("théropodes").
Dollo, L. 1889 H, 679 ("théropodes").
1906 A, 445 ("théropodes").
Drevermann, F. 1911 A, 274.

Fraas, E. 1911 B, 32 ("theropoden").
Fürbringer, M. 1888 A, 1620.
Gadow, H. 1896 C, 204.
 1901 B, 420.
Gilmore, C. W. 1920 B, 1-154.
Gregory, W. K. 1919 A, 18.
Gregory and Camp 1918 A, 530.
Haeckel, E. 1866, Gen. Morph., II, 136 (Harpagosauria).
 1868 A, 455 (Harpagosauria).
Hatcher, J. B. 1903 A, 47.
 1907 A, 10 ("carnivorous dinosaur").
Hay, O. P. 1908 C, 678.
 1910 C, 7.
Heilmann, G. 1926 A, 207.
Heilprin, A. 1887 A, 162.
Hennig, E. 1912 B, 98 ("theropoden").
 1924 A, 130.
Hilzheimer, M. 1913 A, 515 ("theropoden").
Hoernes, R. 1886 A, 619.
Hoffmann, C. K. 1890 B, 1313 (Theropoda); 315 (Goniopoda).
Hooley, R. W. 1912 A, 448.
Huene, F. 1901 A, 160 ("theropoden").
 1901 B, 89 ("theropoden").
 1902 A, 72.
 1906 A, 2 ("theropoden").
 1908 B, 306, 340, 351.
 1914 A, 145.
 1914 G, 39, pl. vii ("theropoden").
 1926 B, 46, 77 (Carnosauria).
Huxley, T. H. 1870 G, 478 (Goniopoda, Symphypoda).
Jaekel, O. 1914 A, 197 (Therophagi).
Janensch, W. 1925 A, 54, 77, 95 ("theropoden").
Johnson, A. 1883 A, 408.
Koken, E. 1893 B, 396 ("theropoden").
 1900 A, 463.
Lafitte, J. P. 1905 A, 410.
Lambe, L. M. 1914 B, 129, pl. iii.
Lebedinsky, N. G. 1913 A, 767 ("theropoden").
Lucas, F. A. 1902 B, 164.
Lull, R. S. 1904 A, 486.
 1904 D, 143 ("carnivorous dinosaur").
 1910 A, 2, 4, 19.
 1912 A, 208.
 1914 D, 353.
 1915 A, 180.
 1915 F, 831.
 1917 A, 471.
 1917 B, 294, 505.
 1924 A, 237.
Lydekker, R. 1912 C, 29.
Matthew, W. D. 1910 D, 555.
 1915 A, 278.
 1915 C, 27, 33.
 1923 C, 408.
Newton, E. T. 1894 A, 601 ("theropodous dinosaur").
Nopcsa, F. 1901 A, 249.
 1902 C, 174 ("theropoden").
 1905 C, 289.
 1907 A, 231.
 1915 B, 15, 18 ("theropoden").
 1917 A, 205 ("theropoden").
 1918 B, 246 ("theropoden").
 1922 A, 115 ("theropoden").
 1923 H, 4, 99, 106, 173.
 1928 A, 182 (Pachypodosauroidea).
Osborn, H. F. 1903 H, 456, 466.
 1904 H, 113 (Theropoda); 114 (Symphypoda).
 1904 N, 308.
 1904 Q, 690 ("carnivorous dinosaurs").
 1905 C, 295.
 1917 A, 771.
 1917 B, 195.
 1924 L, 143.
Palacký, J. 1902 B, 140.
Peck, F. B. 1904 A, 29.
Pompeckj, J. F. 1921 A, 2 ("theropoden").
Reynolds, S. H. 1897 A, 207, 273, 276.
Rice and Gregory 1906 A, 177.
Seeley, H. G. 1888 G, 168, 171.
Simpson, G. G. 1926 E, 8 ("theropods").
 1926 H, 208.
Steiner, H. 1922 A, 338 ("theropoden").
Steinmann, G. 1907 A, 447.
 1908 A, 220.
 1910 A, 99.
Stromer, E. 1915 B, 1-32.
Terra, P. 1911 A, 241 ("theropoden").
Tornier, G. 1913 B, 367, 375 (Plateosauria).
Van den Broeck, E. 1900 A, 82, 83 ("théropodes").
Versluys, J. 1910 B, 181 ("theropoden").
 1912 A, 499 ("theropoden").
 1912 B, 683, 687.
Wieland, G. R. 1925 B, 559 ("theropods").
Williston, S. W. 1914 A, 18, 45.
 1925 A, *passim.*
 1925 B, 214, 291.
Woodward, A. S. 1922 C, 24.
Zittel and Broili 1911 A, 278.
 1923 A, 336, 342, 366.
Zittel, Eastman, etc. 1902 A, 227.

Superfamily ZANCLODONTOIDÆ, new name.

Greene, J. R. 1861 A, 219, 226 (Thecodontia).
Huxley, T. H. 1875 B, 435 (Thecodontosauria).
Nopcsa, F. 1923 H, 125 (Pachypodosauria, in part).
Owen, R. 1860 A, 163 (Thecodontia; types Thecodontosaurus, Palæosaurus, Cladyodon).

ZANCLODONTIDÆ Zittel.

Zittel, K. A. 1890 A, 719.
Arldt, T. 1909 A, 261 ("thecodontosauriden").
 1912 A, 662.
Hoffmann, C. K. 1890 B, 1313.
Huene, F. 1908 B, 262, 305 ("thecodontosauriden").
 1909 B, 13.
Huene, F. 1914 G, pl. vii.
Huxley, T. H. 1870 I, 23 (Thecodontosauri).
 1875 B, 433 (Zanclodon).
Lull, R. S. 1924 A, 229.
Matthew, W. D. 1915 C, 32.
Newton, E. T. 1894 A, 599 (Zanclodon).
 1899 B, 92, 96, pl. x (Zanclodon).

Nopcsa, F. 1923 H, 125 (Thecodontosauridæ).
1928 A, 182 (Thecodontosauridæ).
Plieninger, T. 1847 A, 152, pl. iii (Smilodon, syn. of Zanclodon).
Seeley, H. G. 1892 C, 189 (Zanclodon).
Seeley, H. G. 1899 C, 95.
Zittel and Broili 1911 A, 279 (Anchisauridæ Thecodontosauridæ).
1923 A, 340 (Zanclodontidæ); 344 (Thecodontosauridæ).

THECODONTOSAURUS Riley and Stutchbury.

Hay, O. P. 1902 A, 492.
Abel, O. 1919 A, 588.
Bronn, H. G. 1848 B, 1267.
1849 A, 691.
Cummins, W. F. 1908 A, 745 (Paleosaurus).
Depéret, C. 1912 A, 705.
Emmons, E. 1852 A, 141, 159 (This genus?).
Fraas, E. 1911 B, 30.
Giebel, C. G. 1855 A, 92.
Heilmann, G. 1913 B, 19, 56, figs. 63, 67.
Heilprin, A. 1887 A, 160.
Hoernes, R. 1886 A, 621.
Hoffmann, C. K. 1890 B, 1309.
Huene, F. 1901 A, 160.
1902 A, 57, fig. 71.
1905 B, 345.
1906 A, 2.
1906 B, 105, 149, 151, fig. 99.
1906 C, 336.
1908 B, 262, 301.
1908 C, 99.
1908 G, 228.
1909 B, 13.
1909 C, 321.
1914 F, 672.
1914 G, 20.
1914 I, 75.
Huxley, T. H. 1865 C, 13.
1869 K, 146.
1870 G, 481.
1870 H, 501, pl. xxix (Thecodontosaurus, Palæosaurus).
1875 B, 435.
1875 E, 80.
Lull, R. S. 1915 A, 129.
1924 A, 229.
Lydekker, R. 1885 G, 28.
Newton, E. T. 1899 B, 92 (Thecodontosaurus, Palæosaurus).
Nopcsa, F. 1901 A, 252.
1902 B, 106.
1903 B, 488.
1917 B, 337, 342, figs. 1, 2.
1918 B, 242.
1923 H, 97.
1928 A, 182.
Owen, R. 1842 F, 75 (Palæosaurus).
1845 B, 266 (Thecodontosaurus, Palæosaurus).
Owen, R. 1860 A, 163 (Thecodontosaurus, Paleosaurus).
1860 F, 248 (Thecodontosaurus, Palæosaurus).
Pictet, F. J. 1853 A, 502.
Plieninger, T. 1847 A, 150.
Seeley, H. G. 1887 E, 189.
1892 C, 189.
1899 C, 95 (Thecodontosaurus, Palæosaurus).
Steiner, H. 1922 A, 347, 348.
Versluys, J. 1910 B, 200, figs. H, J.
1912 A, 499.
1912 B, 574, 589.
Watson, D. M. S. 1917 C, 180.
Williston, S. W. 1925 B, 292.
Zittel and Broili 1911 A, 280.
1923 A, 344.

Thecodontosaurus gibbidens Cope.

Hay, O. P. 1902 A, 492.
Huene, F. 1921 B, 571, figs. 14, 15.
Lyman, B. S. 1894 A, 209.
Nopcsa, F. 1901 B, 198.
Triassic (Newark); Pennsylvania.

Thecodontosaurus polyzelus (Hitchcock, E. Jr.).

Hay, O. P. 1902 A, 491 (Anchisaurus).
Abel, O. 1912 F, 71, 274.
Heilmann, G. 1926 A, 154 (Anchisaurus).
Hitchcock, E. Jr., in Hitchcock, E. Sr. 1865 A, 39, pl. (Megadactylus).
Huene, F. 1906 B, 115 (Megadactylus); figs. 10, 10a (Thecodontosaurus).
1908 B, 301, 307, 317.
1914 I, 75, figs. 23-24.
1926 E, 6.
Lull, R. S. 1904 D, 142, fig. 1 ("dinosaur").
1912 D, 411 (Anchisaurus).
1915 A, 119, figs. 14-17 (Anchisaurus).
1917 D, 111, 112 (Anchisaurus).
Lyman, B. S. 1894 A, 211 (Anchisaurus).
Nopcsa, F. 1901 B, 196 (Anchisaurus).
Seeley, H. G. 1887 E, 191 (Megadactylus).
1894 D, 418.
Triassic (Newark); Massachusetts.

Superfamily MEGALOSAUROIDÆ Nopcsa.

Nopcsa, F. 1928 A, 183.
Arldt, T. 1907 D, 664 (Megalosauridæ).
1909 A, 262 ("megalosauriden").
Bertrand, C. E. G. 1903 A, 123 ("mégalosaures").
Brauns, D. 1890 A, 186 ("megalosaurier").
Gervais, P. 1859 A, 465 ("mégalosauridés").
Günther, A. 1886 A, 443 (Megalosauridæ).
Hoernes, R. 1886 A, 619 (Megalosauridæ).
Hoffmann, C. K. 1890 B, 1308 (Megalosauridæ).
Huene, F. 1906 A, 1 (Megalosauridæ).
1906 C, 336 (Megalosaurus).
1909 B, 15 (Megalosauridæ).
1914 A, 146 (Megalosauria).
1914 G, 38, pl. vii (Megalosauridæ).
1923 A, 451 (Carnosauria); 457 (Megalosauridæ).
1926 B, 97, 103, 105 (Megalosauridæ).
1926 D, 474 (Pachypodosauria, Carnosauria).

Huxley, T. H. 1869 I, 394, pl. xxvii (Megalosaurus).
1869 K, 146 (Megalosauridæ).
1870 G, 466 (Megalosaurus).
1870 H, 488 (Megalosauridæ).
1870 I, 23 (Megalosaurus).
Janesch, W. 1920 A, 230 ("megalosauriden").
Koken, E. 1893 B, 365 ("megalosaurier").
1900 A, 463 (Megalosauridæ).
Matthew, W. D. 1915 C, 32 (Megalosauridæ).
Matthew and Brown 1922 A, 368, 376 (Megalosauridæ).
Nopcsa, F. 1901 A, 249 (Megalosauridæ).
Nopcsa, F. 1901 B, 195, 196, 198 (Megalosauridæ).
1918 B, 240 ("megalosauriden").
1923 H, 126, 173, 174, tab. (Megalosauria).
1928 A, 183 (Megalosauroidæ, Megalosauridæ, Megalosaurinæ).
Osborn, H. F. 1904 H, 113 (Megalosauria).
1924 C, 12 (Megalosauridæ).
Owen, R. 1842 F, 81 ("megalosaurs").
Prevost, C. 1825 A, 41 (Megalosaurus).
Tornier, G. 1913 B, 368, 375 (Megalosauridæ).
Woodward, A. S. 1916 A, lxxiv (Megalosaurus).
Zittel and Eastmann, etc. 1902 A, 228 (Megalosauridæ).

ANCHISAURIDÆ Marsh.

Hay, O. P. 1902 A, 491.
Abel, O. 1919 A, 588 (Zanclodontidæ); 595 (Anchisauridæ).
Arldt, T. 1907 D, 637.
Bittner, F. 1912 A, 16 ("anchisauriden").
Hoffmann, C. K. 1890 B, 1314 (Amphisauridæ).
Huene, F. 1902 A, 72.
1914 D, 156 ("ammosauriden").
1914 K, 13 (Ammosauridæ).
Jaekel, O. 1914 A, 197 ("anchisauriden").
Koken, E. 1900 A, 463.
Lull, R. S. 1917 D, 111.
1924 A, 229.
Matthew, W. D. 1915 C, 32.
Nopcsa, F. 1901 A, 249 (subfam. Megalosauridæ).
1903 B, 486 ("anchisauriden").
1904 A, 235.
1923 H, 125.
1928 A, 182.
Palacký, J. 1902 B, 140 ("anchisauriden").
Tornier, G. 1913 B, 368, 375.
Versluys, J. 1912 B, 683 ("anchisauriden").
Williston, S. W. 1925 B, 292.
Zittel and Broili 1911 A, 279.
1923 A, 344, 366.

ANCHISAURUS Marsh. Type *Megadactylus polyzelus* Hitchcock, E. Jr.

Hay, O. P. 1902 A, 491.
Abel, O. 1910 C (231).
1911 A, 156, 169.
1912 F, 267, 292, 659.
1916 A, 470, fig. 1.
Beddard, F. E. 1898 A, 156.
Bigot, A. 1897 A, 462.
Bittner, F. 1912 A, 17.
Boas, J. E. V. 1914 B, 571, fig. 24.
Broom, R. 1906 G, 203.
1913 O, 629.
Case, E. C. 1898 C, 632.
Dollo, L. 1889 H, 679.
Fuchs, H. 1909 B, 150.
Gadow, H. 1896 C, 207.
1901 B, 421.
Gaudry, A. 1896 A, 94, fig. 73.
Gilmore, C. W. 1920 B, 145.
Heilmann, G. 1916 A, 85.
1926 A, 203, fig. 19.
Hitchcock, E. Jr. in Hitchcock, E. Sr. 1865 A, 39 (Megadactylus, type M. polyzelus; preoccupied).
Hoernes, R. 1886 A, 620 (Amphisaurus).
Huene, F. 1905 B, 345.
1906 B, 110, 149.
1908 B, 262.
1909 B, 13.
1909 C, 321.
1912 C, 120 (Syn. of Thecodontosaurus).
Hutchinson, H. N. 1910 A, 145, pl. xvii.
Jaekel, O. 1910 E, 224, fig. 18.
Lucas, F. A. 1902 B, 167.
Lull, R. S. 1904 A, 471.
1910 A, 14.
1915 A, 118.
1917 B, 508.
Lull, R. S. 1924 A, 229.
Lydekker, R. 1912 C, 24.
Marsh, O. C. 1893 G, 169, pl. vi.
Matthew, W. D. 1910 D, 555.
Newton, E. T. 1894 A, 600.
Nopcsa, F. 1900 A, 560.
1901 A, 250 (Amphisaurus, Anchisaurus).
1902 C, 168 (Anchiosaurus).
1903 B, 488.
1905 C, 292.
1906 A, 66.
1918 B, 239.
1923 H, 97, 146.
1928 A, 182.
Osborn, H. F. 1903 D, 471.
1917 B, 211, 213, 216, figs.
Plieninger, F. 1907 A, 295.
Schuchert and Levene 1927 A, 320, fig.
Steiner, H. 1922 A, 346.
Thyng, F. W. 1906 A, 62, fig. S.
Tornquist, A. 1897 A, 683.
Versluys, J. 1910 B, 200.
1912 A, 499.
1912 B, 574, 589, 643, fig. h.
Watson, D. M. S. 1914 C, 397.
Whitnal, H. O. 1925 A, 9.
Williston, S. W. 1879 A, 458 (Megadactylus).
1885 A, 629 (Megadactylus).
1886 A, 282 (Anchisaurus, Amphisaurus).
1904 B, 177, text-fig. 9.
1925 A, 191, 196, 197, fig. 156.
1925 B, 292.
Woodward, A. S. 1907 B, 143.
Woodward, H. 1904 B, 145.
Zittel and Broili 1911 A, 279.
1923 A, 344.
Zittel, Eastman, etc. 1902 A, 228.

Anchisaurus colurus Marsh.

Hay, O. P. 1902 A, 491.
Abel, O. 1908 D, (210), fig. 1.
1909 F, 459.
1911 A, 157, 159.
1912 F, 274, 405, fig. 456.
1919 A, 527, figs. 418, 461, 462.
Arthaber, G. 1921 B, 402.
Bittner, F. 1912 A, 16.
Boas, J. E. V. 1914 C, 278, fig. 65.
Case, E. C. 1922 B, 80 (A. cœlurus).
Fuchs, H. 1909 B, 130, fig. 10.
Gadow, H. 1901 B, 421, fig. 98 (A. cœlurus).
Hay, O. P. 1910 C, 12.
Heilmann, G. 1913 B, 28, fig. 73.
1916 A, 93, fig. 110.
1926 A, 169, fig. 122.
Huene, F. 1906 B, 102, pls. i-iii, figs. 2-7.
1908 B, 272, 273, 278, 307, pl. cx, figs. 3-5; text-fig. 318.
1909 C, 318.
1910 E, 318.
1914 A, 1.
1914 D, 156.
1914 I, 69, figs. 1, 6-11.
1926 E, 6.
Hutchinson, H. N. 1910 A, 142.
Lambe, L. M. 1917 B, 75.
Lull, R. S. 1904 A, 470.
1912 D, 411, 412, fig. 2; 413, fig. 3; 414.
1915 A, 78, 130, pls. iv, x; text-figs. 18-21.
1917 D, 111, 112, 114, pl. iv.
Lull, R. S. 1920 A, 86.
1927 A, 49.
Matthew, W. D. 1924 H, 726 ("anchisaurus").
Nopcsa, F. 1902 C, 168, fig. 3.
Rice and Gregory 1906 A, 175, text-fig. 3.
Schuchert, C. 1910 A, 438.
Smith, N. 1820 A, 146 ("human bones?" A. colurus, *fide* Huene).
Talbot, M. 1911 A, 475.
Versluys, J. 1910 B, 205, figs. K, M, N.
Triassic (Newark); Connecticut.

Anchisaurus solus Marsh.

Hay, O. P. 1902 A, 491.
Huene, F. 1906 B, 110, pl. iv (This genus?).
1908 B, 278, 307, pl. cv, fig. 2 (This genus?).
1910 E, 318.
1914 G, 37.
1914 I, 72, figs. 12-19.
1926 E, 6.
Lull, R. S. 1912 D, 411, 414.
1915 A, 78, 144, 202, figs. 22, 23.
1917 D, 111, 112.
Marsh, O. C. 1893 G, 169.
Matthew, W. D. 1924 H, 726 ("anchisaurus").
Schuchert, C. 1910 A, 438.
Triassic (Newark); Connecticut.

Anchisaurus sp. indet.

Lull, R. S. 1927 A, 49 (This genus?). Triassic (Newark); Connecticut.

AMMOSAURUS Marsh. Type *Anchisaurus major* Marsh.

Hay, O. P. 1902 A, 491.
Huene, F. 1906 B, 107, 149.
1908 B, 304.
1908 E, 380.
1909 B, 13.
1914 I, 74, figs. 20-22.
1914 K, 13.
1926 E, 6.
Lull, R. S. 1910 A, 14.
1915 A, 148.
1917 B, 508, fig. 153.
Nopcsa, F. 1901 A, 250.
1928 A, 182.
Williston, S. W. 1925 B, 292.
Woodward, A. S. 1907 B, 143.
Zittel and Broili 1923 A, 345.

Ammosaurus major Marsh.

Hay, O. P. 1902 A, 491.
Abel, O. 1912 F, 71, 274, 406 (A. maior).
Huene, F. 1906 B, 107, 111, 114, pls. v-ix, fig. 9.
1908 B, 303, 307, figs. 297, 298.
1914 D, 156
Lull, R. S. 1912 D, 411, 414.
1915 A, 78, 148, figs. 24, 25.
1917 D, 111, 114.
1927 A, 49.
Lyman, B. S. 1894 A, 211 (Anchisaurus).
Rice and Gregory 1906 A, 174.
Schuchert, C. 1910 A, 438.
Zittel and Broili 1911 A, 280, figs. 423 (Anchisaurus).
Zittel, Eastman, etc. 1902 A, 228, fig. 327 (Anchisaurus).
Triassic (Newark); Connecticut.

PALÆOCTONUS Cope. Type *P. appalachianus* Cope.

Hay, O. P. 1902 A, 490.
Cross and Howe 1905 A, 468, 480, 494.
Huene, F. 1926 I, 76.
Lucas, F. A. 1901 B, 376.
1902 B, 140.
Mehl, M. G. 1915 A, 164 (Palæochtenus).
1915 B, 522.
Nopcsa, F. 1901 A, 255.
Sinclair, W. J. 1918 A, 459.
Williston, S. W. 1905 B, 340.
1905 D, 297.

Palæoctonus appalachianus Cope.

Hay, O. P. 1902 A, 490.
Huene, F. 1921 B, 561, 570, figs. 1, 2.
Lyman, B. S. 1894 A, 209.
Triassic (Newark); Pennsylvania.

Palæoctonus dumblianus Cope.

Hay, O. P. 1902 A, 490.
Huene, F. 1926 E, 4.
Montgomery, T. H. 1904 A, 57. (Palæoctonus).
Triassic (Dockum); Texas, Arizona.

Palæoctonus orthodon Cope.

Hay, O. P. 1902 A, 490.
Huene, F. 1926 E, 4.
Triassic (Dockum); Texas, Arizona.

Palæoctonus sp. indet.

Cross, W. 1899 B, 3. Triassic (Dolores); Colorado.
1905 B, 5. Triassic (Dolores); Colorado.
1908 A. Triassic (Shinarump); Arizona.
Gregory, H. E. 1917 A, 46. Triassic (Chinle); Arizona.

CLEPSYSAURUS Lea. Type *C. pennsylvanicus* Lea.

Hay, O. P. 1902 A, 492.
Heilprin, A. 1887 A, 160.
Hoffmann, C. K. 1890 B, 1314.
Huxley, T. H. 1865 C, 13.
1869 K, 146.
1870 H, 507.
Nopcsa, F. 1901 A, 250.
Sinclair, W. J. 1918 A, 459.

Clepsysaurus fraserianus (Cope).

Hay, O. P. 1902 A, 492 (Thecodontosaurus).
Huene, F. 1921 B, 567, fig. 10 ("Palæosaurus").
Lyman, B. S. 1894 A, 209 (Palæosaurus).
Nopcsa, F. 1901 A, 251 (Palæosaurus).
1901 B, 197 (Palæosaurus).
Triassic (Newark); Pennsylvania.

Clepsysaurus pennsylvanicus Lea.

Hay, O. P. 1902 A, 492.
Abel, O. 1922 D, 52.
Emmons, E. 1857 B, 370.
Hawkins, A. C. 1914 A, 153 (Clepsisaurus).
Huene, F. 1906 B, 101.
1921 B, 565, fig. 7.
1922 F, tab.
Jäger, G. 1856 A, 959 (Clepsosaurus pensylvanicus).
Lyman, B. S. 1894 A, 209, 214.
Mehl, M. G. 1915 A, 162 (Syn. of Rutiodon carolinensis).
Rogers, H. D. 1858 B, 695.
Ruschenberger and Tryon 1879 A, 13.
Wherry, E. T. 1912 A, 378.
Triassic (Newark); Pennsylvania, New Jersey, North Carolina.

Clepsysaurus veatleianus Cope.

Hay, O. P. 1902 A, 492.
Huene, T. 1921 B, 567, figs. 8, 9 (Syn. of C. fraserianus).
Lyman, B. S. 1894 A, 209.
Sinclair, W. J. 1918 A, 461.
Triassic (Newark); Pennsylvania.

SUCHOPRION Cope. Type *S. cyphodon* Cope.

Hay, O. P. 1902 A, 490.

Suchoprion aulacodus Cope.

Hay, O. P. 1902 A, 490.
Cope, E. D. 1877 E, 184 (Palæoctonus).
Huene, F. 1921 B, 563, 567, figs. 3, 4 (Palæoctonus).
Lyman, B. S. 1894 A, 209.
Triassic (Newark); Pennsylvania.

Suchoprion cyphodon Cope.

Hay, O. P. 1902 A, 490.
Huene, F. 1921 B, 565, fig. 6.
Lyman, B. S. 1894 A, 209.
Triassic (Newark); Pennsylvania.

Suchoprion sulcidens Cope.

Hay, O. P. 1902 A, 490.
Huene, F. 1921 B, 564, fig. 5.
Triassic (Newark); Pennsylvania.

ARCTOSAURUS Adams. Type *A. osborni* Adams.

Hay, O. P. 1902 A, 492.
Case, E. C. 1898 C, 634.
Huene, F. 1902 A, 52.
1906 B, 102.
Nopcsa, F. 1901 A, 250.

Arctosaurus osborni Adams.

Hay, O. P. 1902 A, 492.
Feilden and DeRance 1878 A, 560.
Huene, F. 1902 A, 52, fig. 60.
1926 H, 514.
Jaekel, O. 1915 A, 89.
Lambe, L. M. 1904 C, 26, 38, 48.
Mesozoic; Bathurst Island.

POPOSAURUS Mehl. Type *P. gracilis* Mehl.

Mehl, M. G. 1915 B, 516.
Nopcsa, F. 1921 A, 348.
1923 H, 109, 126, 145.
Zittel and Broili 1923 A, 344.
A genus of uncertain affinities. Put by Nopcsa in the Orthopoda.

Poposaurus gracilis Mehl.

Mehl, M. G. 1915 B, 516, figs. 1, 2.
Triassic (Popo Agie); Wyoming.

MEGALOSAURIDÆ Huxley.

Huxley, T. H. 1870 D, 34.
For citations of literature see under Megalosauroidæ.

ANTRODEMUS Leidy. Type *A. valens* Leidy.

Unless otherwise indicated the authors, as quoted, employ for this genus, the name *Allosaurus.*

Hay, O. P. 1902 A, 489 (Allosaurus, Antrodemus).
Abel, O. 1908 D, (211).
1909 F, 459, 478.
1910 C, (231).
1911 A, 157, 160.
1912 F, 267, 292, 403, 589, 659.
1916 A, 470, figs. 1-3, 6.
1920 A, 387, fig. 603.
1921 A, 257, 266, fig. 93.
1922 C, 358, figs. 308, 344, 345.
Andreae, A. 1903 A, 150.
Anonymous 1910 B, 8.
Beasley, W. L. 1907 D, 446, 5 figs.
Boas, J. E. V. 1914 B, 570, fig. 23.
Brauns, D. 1890 A, 186.
Broili and Fischer 1917 A, 413.
Brown, B. 1908 C, 54.
Case, E. C. 1898 C, 635.
1910 C, 192.
1922 B, 80.
Clark, Bibbins, and Berry 1911 A, 66.
Darton, N. H. 1908 A, 446.
Dollo, L. 1889 H, 680 (Labrosaurus).
Eastman, C. R. 1915 C, 659.
Fuchs, H. 1909 B, 150.
Gadow, H. 1901 B, 422.
Gilmore, C. W. 1915 C, 53, pl. x ("allosaur").
1915 E, 501, fig. 1.
1919 A, 111.
1920 B, 2, 144.
1924 G, 33.
1925 A, 360, 362.
Gregory, W. K. 1927 C, 171.
Gregory and Camp 1918 A, 530.
Hartz, N. 1902 A, 167 ("dinosaur").
Hatcher, J. B. 1901 C, 326.
Hay, O. P. 1908 C, 678.
1908 E, 353 (Antrodemus).
1909 F, 93.
1910 C, 4.
Heilmann, G. 1926 A, 203 (Antrodemus).
Heilprin, A. 1887 A, 162.
Hennig, E. 1924 A, 144.
Hoernes, R. 1886 A, 621 (Labrosaurus).
Huene, F. 1901 A, 160.
1901 B, 101.
1906 B, 151, fig. 98.
1908 B, 334 (Labrosaurus).
1909 B, 15.
1914 C, 577, 583.
1915 B, 13.
1923 A, 450.
1926 B, *passim.*
1926 D, 474.
Huene and Lull 1908 A, 142.
Hutchinson, H. N. 1910 A, 135, pl. xv; text-fig. 44.
Janensch, W. 1925 A, *passim.*
Koken, E. 1893 B, 396.
Lambe, L. M. 1917 B, 52.
Lebedinsky, N. G. 1913 A, 767.
Loomis, F. B. 1901 A, 195.
Lucas, F. A. 1902 A, 165, fig.
Lull, R. S. 1904 A, 471.
1910 A, 2, 15 (Labrosaurus).
1911 B, 173.
1912 C, 680.
1917 A, 471.
1917 B, 507, fig. 151.
1924 A, 230, fig. 22.
Lydekker, R. 1913 A, 14.
Matthew, W. D. 1908 E, 3, fig.
1910 F, 8.
1915 C, 36, figs. 11, 12.
Matthew and Brown 1922 A, 368, 369.
Mook, C. C. 1916 A, 154 (Antrodemus).
1918 A, 467.
Nopcsa, F. 1901 A, 253 (Antrodemus = Megalosaurus).
1901 B, 198 (Allosaurus); 199 (Antrodemus = Megalosaurus).
1905 C, 292.
1906 A, 75.
1923 H, 93, pl. vi, fig. 11 (Antrodemus); 147 (Allosaurus).
1925 A, 19.
1925 B, 9.
1928 A, 183.
Osborn, H. F. 1904 F, 8, fig. 3.
1905 A, 260.
1906 A, 283, fig. 2.
1912 J, 27.
1917 B, 213, fig. 221.
1924 I, 6.
Parks, W. A. 1928 A.
Reed, W. R. 1909 A, 198.
Riggs, E. S. 1904 A, 423.
Sauvage, H. E. 1902 B, 9.
Schuchert, C. 1918 B, 254.
Schuchert and Levene 1927 A, 320, fig.
Seeley, H. G. 1887 E, 211
1888 G, 168, fig.
Seitz, A. L. L. 1907 A, 314.
Simpson, G. G. 1926 H, 211, 215.
Steiner, H. 1922 A, 346.
Stromer, E. 1915 B, 7.
Tolmachoff, I. 1924 A, 490.
Tornier, G. 1909 B, 514.
1913 B, 368.
Versluys, J. 1910 B, 183, fig. D.
1910 C, 436.
1912 A, 495.
Whitnal, H. O. 1925 A, 9.
Williston, S. W. 1878 A, 45.
1901 A, 111 (Antrodemus).
1905 B, 345 (Antrodemus).
1909 A, 397.
1925 A, 141, 175, 191, 197, figs. 113, 141, 156.

Woodward, H. 1904 B, 146.
Zittel and Broili 1911 A, 282.
1923 A, 345.
Zittel, Eastman, etc. 1902 A, 229.

Antrodemus sulcatus (Marsh).

Hay, O. P. 1902 A, 489.
Gilmore, C. W. 1920 B, 125 (Labrosaurus).
Hay, O. P. 1908 E, 352 (Labrosaurus).
Huene, F. 1922 A, 80 (Labrosaurus).
1926 B, pl. i (Labrosaurus).
Janensch, W. 1925 A, 89 (Labrosaurus).
Nopcsa, F. 1901 A, 255 (Labrosaurus).
Upper Jurassic or Lower Cretaceous (Morrison?); Colorado.

Antrodemus? trihedrodon (Cope).

Hay, O. P. 1902 A, 488 (Dryptosaurus).
Mook, C. C. 1916 A, 140 (Dryptosaurus).
Nopcsa, F. 1901 A, 253 (Lælaps).
1901 B, 201 (Megalosaurus).
Osborn and Mook 1919 A, 390 (Lælaps).
Williston, S. W. 1878 A, 45 (Dryptosaurus).
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Antrodemus valens Leidy.

Hay, O. P. 1902 A, 489 (Allosaurus fragilis); 490 (Antrodemus valens).
Abel, O. 1919 A, 596, figs. 463, 464 (Allosaurus agilis).
1922 C, 374, fig. 320.
1925 A, 242, fig. 177.
Brown, B. 1919 A, 429, fig. ("dinosaur").
Gilmore, C. W. 1914 A, 25 (Allosaurus fragilis).
1915 E, 501, figs. 2-7 (Allosaurus fragilis).
1918 B, 62 (Allosaurus fragilis).
1920 B, 2, 5-75, 79, 88, pls. i-xvi; text-figs. 1, 3-10, 12-52.
1924 B, 7.
1925 A, 355 (Antrodemus fragilis).
Gregory, W. K. 1913 E, 11, fig. 8 (Allosaurus agilis).
Hay, O. P. 1908 E, 352 (Allosaurus fragilis); 353 (Antrodemus valens).
Heilmann, G. 1913 B, 13, fig. 57 (Allosaurus agilis).
1926 A, 31, 100, 153, 162, figs. 19, 80, 109, 115, 124.
Huene, F. 1914 C, 587, pl. vii (Allosaurus agilis).
1919 A, 183, pl. vii, fig. 3 (Allosaurus fragilis).
1923 A, 456.
1926 B, 94, pl. i.
Hutchinson, H. N. 1893 A, 84 (Allosaurus fragilis).
Jaekel, O. 1911 A, 160, fig. 176 (Allosaurus agilis).
Janensch, W. 1925 A, *passim* (Allosaurus); 89 (Labrosaurus ferox).
Kingsley, J. S. 1925 A, 286, fig. 309.
Lambe, L. M. 1917 B, 50, 56, figs. 32, 37 (Allosaurus fragilis).
Lull, R. S. 1911 B, 173 (Allosaurus fragilis).
1911 C, 185 (Allosaurus fragilis).
1912 C, 680 (Allosaurus agilis).
1917 B, 509, pl. ix; text-fig. 153 (Allosaurus fragilis).
1924 A, 257, 268 (Allosaurus fragilis).
Marsh, O. C. 1884 B, pl. xi, fig. 2; pl. xii (Allosaurus fragilis).
Matthew, W. D. 1907 F, 43, fig. ("Allosaurus").
Merrill, G. P. 1907 A, 76 (Poicilopleuron).
Moodie, R. L. 1923 B, 154, pl. xxiii.
Mook, C. C. 1916 A, 141 (Allosaurus fragilis); 142 (Antrodemus).
Nopcsa, F. 1901 A, 255 (Labrosaurus fragilis; Megalosaurus valens).
1901 B, 199 (Allosaurus fragilis); 201 (Megalosaurus valens, Labrosaurus fragilis).
Osborn, H. F. 1904 F, 50 (Allosaurus fragilis).
1911 C, pl. ii ("Allosaurus").
1912 J, 1-30, figs. 9-11, 26, 27 (Allosaurus agilis).
Schuchert, C. 1918 B, 254 (Allosaurus fragilis).
Steiner, H. 1922 A, 346 (Allosaurus fragilis).
Stromer, E. 1915 B, 6, 12 (Allosaurus agilis).
Williston, S. W. 1901 A, 111 (Allosaurus fragilis).
1905 B, 349 ("Antrodemus").
Young and Cooper 1927 A, 5, 7 (Androdemus fragilis).
Zittel and Broili 1911 A, 282, fig. 427 (Allosaurus agilis).
1923 A, 345, fig. 454 (Antrodemus).
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Antrodemus sp. indet.

Fraas, E. 1904 B, 282, figs. 1, 2 (Allosaurus). Jurassic (Cape Stewart); N. E. Greenland.
Gilmore, C. W. 1914 A, 4 (Allosaurus). Wyoming.
1920 B, 20, text-fig. 20.
Hartz, N. 1902 A, 167 ("dinosaur").
Madsen, V. 1904 A, 169 ("dinosaur").
Mook, C. C. 1916 A, 96 (Allosaurus). Jurassic or Lower Cretaceous (Morrison); Wyoming.
Simpson, G. G. 1926 E, 3. Upper Jurassic; Wyoming.

CREOSAURUS Marsh. Type *C. atrox* Marsh.

Hay, O. P. 1902 A, 489.
Abel, O. 1909 F, 478.
Arthaber, G. 1910 A, 553.
Brauns, D. 1890 A, 186.
Clark, Bibbins, and Berry 1911 A, 66.
Gilmore, C. W. 1920 B, 82, 117 (Syn. of Antrodemus).
Hay, O. P. 1908 E, 353.
1909 F, 93.
Hoffmann, C. K. 1890 B, 1313, 1314.
Huene, F. 1905 B, 345.
1906 A, 2.
1908 B, 334.
1909 B, 15.
Lambe, L. M. 1904 G, 24.
Lull, R. S. 1910 A, 15.
1911 B, 174.
Mook, C. C. 1916 A, 154.

Mook, C. C. 1918 A, 467.
Nopcsa, F. 1901 A, 251.
Osborn, H. F. 1903 C, 697.
1904 Q, 688.
Sauvage, H. F. 1902 B, 9.
Seeley, H. G. 1888 G, 169.
Stromer, E. 1915 B, 18.
Versluys, J. 1910 B, 181, 183.
1912 A, 494, fig. 4.
Williston, S. W. 1878 A, 45.
1901 A, 111.
1905 B, 345.

This genus may be synonymous with *Antrodemus.*

Creosaurus atrox Marsh.

Hay, O. P. 1902 A, 489.
Abel, O. 1912 F, 496, fig. 380.
Gilmore, C. W. 1920 B, 118.
Hay, O. P. 1908 E, 354.
Marsh, O. C. 1879 B, 90, pl. x, figs. 1, 2.
1884 B, 331, pl. ix, fig. 3; pl. xiv.
Mook, C. C. 1916 A, 141.
Nopcsa, F. 1900 A, 560.
Osborn, H. F. 1903 C, 697, 700, figs. 1, 2.
Versluys, J. 1910 B, 181, 213, figs. A-C.
1912 A, 494.
Williston, S. W. 1901 A, 113, fig. ("Creosaurus").

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Creosaurus? sp. indet.

Gregory, H. E. 1917 A, 63 (This genus?). Jurassic? (St. Elmo); Arizona.
Williston, S. W. 1902 E, 247 (Creosaurus? or Allosaurus?). Lower Cretaceous (Comanche); Kansas.

CERATOSAURIDÆ Marsh.

Hay, O. P. 1902 A, 493.
Arldt, T. 1907 D, 644.
1909 A, 262 ("ceratosauriden").
1912 A, 668.
Gilmore, C. W. 1920 B, 76.
Huene, F. 1909 B, 15.
1926 B, 96, 98.
Jaekel, O. 1914 A, 197 ("ceratosauriden").
Koken, E. 1900 A, 463 (Ceratosauria, Ceratosauridæ).
Matthew and Brown 1922 A, 368 (Deinodontidæ).

CERATOSAURUS Marsh. Type *C. nasicornis* Marsh.

Hay, O. P. 1902 A, 493.
Abel, O. 1909 F, 459.
Ameghino, F. 1898 C, 74.
1906 A, 39.
Andrews, C. W. 1921 C, 571.
Beddard, F. E. 1898 A, 155.
Boule, M. 1902 B, 908 ("ceratosaure").
Brown, B. 1917 A, 299.
Case, E. C. 1898 C, 635.
Depéret, C. 1896 A, 185.
Dollo, L. 1889 H, 680.
Fuchs, H. 1909 B, 150.
Gilmore, C. W. 1916 B, 187.
1920 B, 14, 76, 144.
1920 C, 277.
1926 F, 91, fig. 1 ("Ceratosaurus").
Gratacap, L. P. 1902 A, 5.
Hay, O. P. 1908 C, 678.
1910 C, 19.
1911 B, 412.
Heilmann, G. 1926 A, 203, figs. 19, 115, 126, 127.
Hinze, R. 1910 A, 379.
Hooley, R. W. 1925 A, 25.
Huene, F. 1901 A, 159, 160.
1908 B, 335.
1909 B, 15.
1914 G, pl. vii.
1921 D, 390.
1923 A, 457.
1926 B, 70, 87, 96, pl. ii.
1926 D, 486.
Hutchinson, H. N. 1910 A, 133, pl. xiv.
Jaekel, O. 1908 B, 468.
1909 C, 706.
Janensch, W. 1920 A, 230 (This genus?).
1925 A, 55.
Kingsley, J. S. 1925 A, 168, fig. 181.
Knipe, H. R. 1912 A, 92, fig.
Lebedinsky, N. G. 1913 A, 767.
Loomis, F. B. 1901 A, 195.
Lucas, F. A. 1901 F, 485, pl. v.
1901 J, 106, figs. 23, 25.
1906 C, 316.
Lull, R. S. 1910 A, 14.
1917 B, 509.
1924 A, 229.
Lydekker, R. 1910 D, 459.
Matthew, W. D. 1908 B, 185.
Matthew and Brown 1922 A, 370.
Mook, C. C. 1918 A, 467.
Newton, E. T. 1894 A, 600.
1899 B, 92.
Nopcsa, F. 1900 A, 560.
1901 A, 253.
1903 D, 266.
1906 A, 66.
1918 A, 196.
1923 H, 93, 175.
1926 A, 636.
1928 A, 183.
Osborn, H. F. 1912 J, 5.
1917 A, 770.
Parks, W. A. 1928 A, 8.
Pycraft, W. P. 1909 A, 204, fig.
Reynolds, S. H. 1897 A, 208, 283.
Sauvage, H. E. 1902 B, 9.
Schuchert, C. 1910 A, 582.
1915 A, 875, fig. 481.
Seeley, H. G. 1888 G, 169, 170.
Simpson, G. G. 1926 H, 208, 211.
1926 J, 458.
Spurrell, H. G. F. 1906 A, 120.
Steinmann, G. 1907 A, 448, fig. 790
1908 A, 229, fig. 137.
1909 A, 80.
Stromer, E. 1915 B, 26.

Tornier, G. 1909 B, 514.
Versluys, J. 1910 C, 436.
1912 B, 580.
Williston, S. W. 1905 B, 345.
1925 A, 149, fig. 122.
Winans, W. 1916 A, 187 ("extinct reptiles").
Woodward, A. S. 1901 B, 181.
1910 A, 114.
Woodward, H. 1904 B, 145.
Zittel and Broili 1911 A, 281.
1923 A, 345, 347.
Zittel, Eastman, etc. 1902 A, 228.

Ceratosaurus nasicornis Marsh.

Hay, O. P. 1902 A, 494.
Abel, O. 1912 F, 577.
1919 A, 598, fig. 465.
1922 C, 434, fig. 362.
Beard, J. C. 1901 A, 184, fig. 1.
Bigot, A. 1897 A, 464, figs. 3, 12.
Boule, M. 1891 A, 19, fig. 5.
Eimer, G. H. T. 1901 A, 131.
Gadow, H. 1901 B, 422, fig. 99.
Gilmore, C. W. 1909 A, 227.
1914 A, 25.
1915 E, 501, fig.
1920 B, 14, 20, 25, 56, 66, 76-116, pls. xvii-xxxi; text-fig. 53.
1920 C, 277, pl. v.
1921 F, 66 ("Ceratosaurus").
Gilmore, C. W. 1924 B, 2, 15.
1925 A, 355.
Hay, O. P. 1908 E, 351, 359, text-figs. 1-4.
Heilmann, G. 1926 A, 147, fig. 107.
Huene, F. 1926 B, 69, 96, 108.
1926 D, 474.
Hutchinson, H. N. 1910 A, 137, figs. 45, 46.
Janensch, W. 1925 A, *passim.*
Lambe, L. M. 1903 B, 134.
1904 G, 5.
Lucas, F. A. 1902 B, 166.
Lydekker, R. 1909 C, 464.
Merrill, G. P. 1907 A, 65.
Mook, C. C. 1916 A, 143.
Nopcsa, F. 1901 B, 201 (Megalosaurus).
1915 A, 388.
Peck, F. B. 1904 A, 29.
Reynolds, S. H. 1897 A, 206, fig. 35.
Shufeldt, R. W. 1916 A, 187.
1916 B, 41, fig. 5.
Stromer, E. 1915 B, 7.
Tornier, G. 1913 B, 369, figs. 47, 48.
Versluys, J. 1910 B, 189, figs. E-G.
Woodward, A. S. 1910 A, 112.
1922 C, 25, fig. 20.
Zittel and Broili 1911 A, 280, fig. 424.
1923 A, 346, figs. 455, 456.
Zittel, Eastman, etc. 1902 A, 229, figs. 328, 329.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

DEINODONTIDÆ Brown.

Brown, B. 1914 E, 377 (Sept. 1.).
Hay, O. P. 1902 A, 487 (Megalosauridæ).
Agassiz, L. 1844 D, 137 ("mégalosaures").
Cope, E. D. 1868 C, 417 (Dinodontidæ).
Gilmore, C. W. 1920 B, 116, 144 (Megalosauridæ).
1924 B, 1 (Deinodontidæ, Dromæosaurinæ).
Huene, F. 1901 A, 160 ("dryptosauriden").
1923 A, 457.
1926 B, 101, 109 (Dinodontidæ).
Huxley, T. H. 1870 H, 490 (Megalosauridæ).
Koken, E. 1900 A, 463.
Lull, R. S. 1924 A, 230.
Marsh, O. C. 1878 B, 242 (Allosauridæ).
1890 C, 424 (Dryptosauridæ).
Matthew, W. D. 1914 B, 387 (Sept. 1.).
1915 C, 32.
1921 D, 211.
Matthew and Brown 1922 A, 368, 376 (Deinodontidæ, Dromæosaurinæ).
Nopcsa, F. 1923 H, 126 (Tyrannosauridæ).
1928 A, 183 (Aublysodontinæ).
Osborn, H. F. 1906 A, 283 (Tyrannosauridæ).
Zittel and Broili 1923 A, 345.

DEINODONTINÆ Matthew and Brown.

Matthew and Brown 1922 A, 376.
Marsh, O. C. 1890 C, 424 (Dryptosauridæ).
Nopcsa, F. 1928 A, 183 (Aublysodontinæ).

DEINODON Leidy. Type *D. horridus* Leidy.

Hay, O. P. 1902 A, 488.
Baird, S. F. 1876 A, cci (Aublysodon).
Bowen, C. F. 1915 A, 152.
Brown, B. 1914 E, 377.
Cope, E. D. 1880 U, 148 (Aublysodon).
1892 K, 242 (Amblypodon, misprint).
Gilmore, C. W. 1920 B, 123.
Hatcher, J. B. 1905 B, 85.
Hay, O. P. 1903 D, 119.
1908 E, 356.
Henning, C. L. 1914 A, 771.
Hoffmann, C. K. 1890 B, 1315.
Huene, F. 1909 B, 15.
1926 B, 93, 101 (Dinodon).
Lambe, L. M. 1904 G, 5.
1917 B, 9.
Lull, R. S. 1924 A, 231.
Matthew, W. D. 1913 E, 792.
Matthew and Brown 1922 A, 370, 374.
Nopcsa, F. 1901 A, 253 (Aublysodon; Dinodon = Megalosaurus).
1902 B, 106 (Aublysodon).
1928 A, 183 (Aublysodon).
Osborn, H. F. 1902 H, 674.
1902 I, 9, 17.
1905 A, 259, 261.
1924 I, 6 (Deinodon).
Peale, A. C. 1913 A, 979.
Stanton and Hatcher 1905 A, 38 (Deinodon); 50 (Aublysodon).
Williston, S. W. 1902 K, 953 (Aublysodon).
Zittel and Broili 1911 A, 281 (Aublysodon, Deinodon).
1923 A, 345 (Deinodon).

Deinodon? falculus (Cope).

Hay, O. P. 1902 A, 488 (Dryptosaurus).
Bowen, C. F. 1915 A, 132, 149, 150.
Hatcher, J. B. 1905 B, 86.
Matthew and Brown 1922 A, 376 (Dromæosaurus? sp.).
Nopcsa, F. 1901 A, 253 (Lælaps).
1901 B, 199 (Lælaps).
Osborn, H. F. 1902 I, 13.
Upper Cretaceous (Judith River); Montana.

Deinodon hazenianus (Cope).

Hay, O. P. 1902 A, 488 (Dryptosaurus).
Bowen, C. F. 1915 A, 132, 149, 150.
Hatcher, J. B. 1905 B, 86.
Hay, O. P. 1910 B, 299.
Matthew and Brown 1922 A, 376 (Deinodon horridus?).
Osborn, H. F. 1902 I, 13.
Peale, A. C. 1912 A, 754.
Sternberg, C. H. 1914 A, 134.
Upper Cretaceous (Judith River); Montana: (Lance); Wyoming.

Deinodon horridus Leidy.

Hay, O. P. 1902 A, 489.
Bowen, C. F. 1915 A, 132, 148, 149, 151 (Deinodon horridus); 130, 151 (Aublysodon mirandus).
Brown, B. 1914 E, 378 (Aublysodon mirandus).
Gilmore, C. W. 1916 D, 288, pl. lxxiii, fig. 4 (This genus and species?).
Hatcher, J. B. 1905 B, 83 (Deinodon horridus, Aublysodon mirandus).
Hay, O. P. 1902 A, 488 (Dryptosaurus kenabekides).
1903 D, 119; 120 (Ornithomimus mirandus).
1908 E, 356.
1910 B, 299.
Huene, F. 1926 B, 101, pl. i (Dinodon).
Lambe, L. M. 1902 A, 49.
1903 B, 137.
1904 C, 23, 37, 48.
1904 E, 36.
Matthew and Brown 1922 A, 376.
Nopcsa, F. 1901 A, 253 (Aublysodon); 255 (Megalosaurus).
Nopcsa, F. 1901 B, 199 (A. cristatus); 201 (Megalosaurus).
Osborn, H. F. 1902 I, 13.
1905 A, 259.
Peale, A. C. 1912 A, 754 (Aublysodon mirandus).
Sternberg, C. H. 1914 A, 134.
Upper Cretaceous (Judith River); Montana: (Belly River); Alberta, New Mexico?.

Deinodon incrassatus (Cope).

Hay, O. P. 1902 A, 488 (Dryptosaurus).
Ballou, W. H. 1897 A, 20 (Dryptosaurus).
Bowen, C. F. 1915 A, 132, 148-150.
Cope, E. D. 1892 K, 240 (Lælaps).
Hatcher, J. B. 1905 B, 85.
Hay, O. P. 1908 E, 356 (Dryptosaurus).
Matthew and Brown 1922 A, 376 (Deinodon horridus?).
Nopcsa, F. 1901 A, 253 (Lælaps).
1901 B, 199 (Syn. of Lælaps).
1902 B, 104 (Lælaps).
Osborn, H. F. 1902 H, 675 (Dryptosaurus).
1905 A, 260 (Lælaps, Dryptosaurus).
Sternberg, C. H. 1914 A, 134.
Stromer, E. 1915 B, 4, 12 (Dryptosaurus).
Upper Cretaceous (Judith River); Montana: (Belly River); Alberta.

Deinodon lateralis Cope.

Hay, O. P. 1902 A, 489.
Bowen, C. F. 1915 A, 132.
Hatcher, J. B. 1905 B, 85.
Matthew and Brown 1922 A, 376 (D. horridus?).
Nopcsa, F. 1901 A, 253 (Aublysodon).
1901 B, 199 (Aublysodon).
Osborn, H. F. 1902 I, 13.
Sternberg, C. H. 1914 A, 134.
Upper Cretaceous (Judith River); Montana.

Deinodon? sp. indet.

Brown, B. 1907 A, 842 (Aublysodon). Upper Cretaceous (Hell Creek); Montana.
Gilmore, C. W. 1916 D, 287, pl. lxxiii, figs. 1, 4. Upper Cretaceous (Ojo Alamo); New Mexico.
Matthew, W. D. 1920 D, 536, fig. ("Deinodon"). Upper Cretaceous (Belly River); Alberta.

DRYPTOSAURUS Marsh. Type *Lælaps aquilunguis* Cope.

Hay, O. P. 1902 A, 487.
Abel, O. 1914 B, 87 (Lælaps).
Andreae, A. 1903 A, 150 (Lælaps).
Baird, S. F. 1876 A, cci, 358 (Lælaps).
Brauns, D. 1890 A, 186.
Cope, E. D. 1872 QQ, 2 (Lælaps).
1880 U, 147 (Lælaps).
Depéret, C. 1912 A, 705.
Hay, O. P. 1908 E, 356.
1910 B, 299.
Hoffmann, C. K. 1890 B, 1315 (Lælaps).
Huene, F. 1905 B, 345.
1908 B, 336.
1909 B, 15.
1923 A, 456.
1926 B, 102, 105, 108.
Huxley, T. H. 1870 G, 476 (Lælaps).
Lambe, L. M. 1903 B, 136.
Lambe, L. M. 1904 G, 5.
Lull, R. S. 1910 A, 15.
1924 A, 231.
Matthew and Brown 1922 A, 374, 383.
Moodie, R. L. 1926 A, 86, text-fig. 7.
Newberry, J. S. 1878 C, 647 (Lælaps).
Nopcsa, F. 1901 A, 253 (Dryptosaurus, Lælaps).
1901 B, 199 (Syn. of Lælaps).
1906 A, 73.
1918 B, 239 (Lælaps).
1928 A, 183.
Osborn, H. F. 1902 H, 674, 675.
1902 I, 9, 17.
1905 A, 259, 260, 261.
1924 I, 6.
Perrier, E. 1920 A, 320 (Lælaps).
Seitz, A. L. L. 1907 A, 343.
Stanton and Hatcher 1905 A, 51 (Lælaps).

Stromer, E. 1915 B, 26.
Wieland, G. R. 1925 B, 558 (Lælaps).
Williston, S. W. 1904 F, 830.
Zittel and Broili 1911 A, 282.
1923 A, 345 (Dryptosaurus, Lælaps).
Zittel, Eastman, etc. 1902 A, 230 (Lælaps).

Dryptosaurus aquilunguis (Cope).

Hay, O. P. 1902 A, 488.
Ballou, W. H. 1897 A, 14, 20, fig. ("Lælaps").
Cannon, G. L. 1906 B, 195 (Lælaps).
Cope, E. D. 1867 H, 71 (Lælaps).
Gilmore, C. W. 1921 E, 584, pl. cxiv, fig. 2.
Huene, F. 1908 B, 335, fig. 314.
1923 A, 456.
1926 B, 93, pls. i, ii.
Huxley, T. H. 1870 G, 477 (Lælaps).
Matthew and Brown 1922 A, 376.
Nat. Sci. 1898 A, 230.
Nopcsa, F. 1901 A, 253 (Lælaps).
1901 B, 199 (Lælaps).
1902 B, 105 (Lælaps).
Osborn, H. F. 1904 F, 19, 44 (Lælaps).
1905 A, 260 (Lælaps).
Stromer, E. 1915 B, 12, 21.
Upper Cretaceous (Hornerstown); New Jersey.

Dryptosaurus? medius (Marsh).

Marsh, O. C. 1888 A, 93 (Allosaurus).
Hay, O. P. 1902 A, 489 (Antrodemus).
Clark, Bibbins and Berry 1911 A, 89 (Allosaurus).
Gilmore, C. W. 1920 B, 119, pl. xxxiv, figs. 1-4 (Dryptosaurus?).
1921 E, 583, 591, pl. cx, fig. 2.
Hay, O. P. 1908 E, 353 (Allosaurus).
Lull, R. S. 1911 B, 173 (Allosaurus).
1911 C, 183, pl. xiv, figs. 1-3 (Allosaurus).
Matthew and Brown 1922 A, 376 (This genus?).
Merrill, G. P. 1907 A, 63 (Allosaurus).
Mook, C. C. 1916 A, 143 (Allosaurus).
Schuchert, C. 1910 A, 586 (Allosaurus).
Simpson, G. G. 1926 H, 207 (This genus?).
Lower Cretaceous (Arundel); Maryland.

Dryptosaurus? potens (Lull).

Lull, R. S. 1911 C, 186, pl. xiv, fig. 4 (Creosaurus).
Clark, Bibbins and Berry 1911 A, 89 (Creosaurus).
Gilmore, C. W. 1920 B, 116, pl. xxxii; text-fig. 66 (Dryptosaurus?).
1921 E, 584, 591, pl. cxi, fig. 2.
Huene, F. 1926 B, pl. i.
Lull, R. S. 1911 B, 174 (Creosaurus).
Mook, C. C. 1916 A, 143 (Creosaurus).
Simpson, G. G. 1926 H, 207 (This genus?).
Lower Cretaceous (Arundel); Washington, D. C.

Dryptosaurus sp. indet.

Hay, O. P. 1903 D, 119.
Williston, S. W. 1907 B, 53. Cretaceous (Rattlesnake); Texas.

GORGOSAURUS Lambe. Type *G. libratus* Lambe.

Lambe, L. M. 1914 D, 13.
Abel, O. 1926 F, (39).
Gilmore, C. W. 1920 B, *passim.*
1924 G, 32.
Heilmann, G. 1926 A, 205, figs. 123, 124.
Huene, F. 1923 A, 456.
1926 B, 46, 89, 93, 101.
Janensch, W. 1925 A, *passim.*
Joleaud, L. 1920 A, 494.
Lambe, L. M. 1915 B, 118.
1917 B, 1-84.
Lull, R. S. 1924 A, chart.
Matthew, W. D. 1920 D, 544.
Matthew and Brown 1922 A, 368, 374, 383 (Syn.? of Deinodon).
Nopcsa, F. 1923 C, 472, fig. 7.
1923 H, 93.
1928 A, 183.
Osborn, H. F. 1917 A, 771.
Parks, W. A. 1928 A.
Rogers, A. F. 1924 A, 538, 546.
Simpson, G. G. 1926 I, 454.
Sternberg, C. H. 1917 A, 75.
Sternberg, C. M. 1921 A, 65.
Williston, S. W. 1925 A, 141, 175, 196, figs. 113, 141.
Zittel and Broili 1923 A, 346 (Syn. of Deinodon).

Gorgosaurus libratus Lambe.

Lambe, L. M. 1914 D, 13.
Abel, O. 1924 A, 710, figs. 2, 3.
Gilmore, C. W. 1915 E, 513.
1920 B, 26, 53.
1924 B, 7.
Heilmann, G. 1926 A, 168, fig. 120.
Huene, F. 1926 B, 89, pls. i, ii (G. libratus); 101 (G. fibratus).
Janensch, W. 1925 A, 89.
Joleaud, L. 1920 A, 494, fig. 9.
Lambe, L. M. 1914 F, 293, 297.
1915 B, 117.
1916 A, 195, 196.
1917 B, 1-84, with 45 illust.
Lydekker, R. 1915 C, 630.
Matthew, W. D. 1916 A, 484.
Matthew and Brown 1923 A, 1, figs. 1-3, 5.
Sternberg, C. H. 1917 A, 53, 58, figs. 11-14, 39.
1918 A, 207.
Upper Cretaceous (Belly River); Alberta.

Gorgosaurus sternbergi Matthew and Brown.

Matthew and Brown 1923 A, 7, fig. 4.
Upper Cretaceous (Belly River); Alberta.

ALBERTOSAURUS Osborn. Type *A. sarcophagus* Osborn.

Osborn, H. F. 1905 A, 259.
Brown, B. 1913 D, 144.
1914 E, 377.
Gilmore, C. W. 1916 D, 288.
Hay, O. P. 1908 E, 356.
Huene, F. 1908 B, 336.
1909 B, 15.
1923 A, 456.
1926 B, 93, 101.
Matthew, W. D. 1915 C, 55.
Matthew and Brown 1922 A, 368, 374 (Syn.? of Deinodon).
1923 A, 9.
Nopcsa, F. 1928 A, 183.
Osborn, H. F. 1912 J, 5, 29.
Sternberg, C. M. 1926 A, 103.
Zittel and Broili 1911 A, 281.
1923 A, 346 (Syn.? of Deinodon).

Albertosaurus arctunguis Parks.

Parks, W. A. 1928 A, 1-42, pl. i; 20 text-figs.
Upper Cretaceous (Edmonton); Alberta.

Albertosaurus sarcophagus Osborn.

Osborn, H. F. 1905 A, 265.
Brown, B. 1914 E, 374.
1919 A, 413 ("Albertosaurus").
Cope, E. D. 1892 K, 240 (Lælaps incrassatus).
1892 Z, 17 (Lælaps incrassatus).
Hay, O. P. 1908 E, 356.
Huene, F. 1906 B, 105, fig. 1 (Dryptosaurus incrassatus).
1908 B, 336.
1914 I, 70, figs. 2-5 (Dryptosaurus).
1926 B, 101, pls. i, ii.
Lambe, L. M. 1899 B, 184A, 187A (Lælaps incrassatus).
1903 B, 133, pls. i-iii (Dryptosaurus incrassatus).
1904 C, 26, 38, 48 (Dryptosaurus incrassatus).
1904 F, 205 A (Dryptosaurus incrassatus).
1904 G, 5, pls. i-viii; text-figs. A, B (D. incrassatus).
1905 D, 362 A (Dryptosaurus incrassatus).
1914 H, 398, 401 (Dryptosaurus).
Matthew, W. D. 1912 D, 219 ("Albertosaurus").
Matthew and Brown 1922 A, 377 (Deinodon?).
Osborn, H. F. 1902 H, 675 (Dryptosaurus incrassatus).
1902 I, 13 (Deinodon incrassatus).
1905 A, 260 (Dryptosaurus incrassatus?).
Parks, W. A. 1928 A (A. sarcophagus, Dryptosaurus incrassatus).
Sternberg, C. M. 1926 A, 104 (A. sarcophagus).
Whiteaves, J. F. 1901 A, 184, 189 (Lælaps incrassatus).
Cretaceous (Edmonton); Alberta.

TYRANNOSAURINÆ.

Matthew and Brown 1922 A, 378.
Osborn, H. F. 1906 A, 283 (Tyrannosauridæ).

TYRANNOSAURUS Osborn. Type *T. rex* Osborn.

Osborn, H. F. 1905 A, 259, 262.
Abel, O. 1910 C, (231).
1911 A, 157.
1912 F, 497.
1916 A, 470, fig. 1.
1919 A, 593.
Adams, L. A. 1919 A, 132, pl. xiii.
Brown, B. 1908 B, 199.
1908 C, 54.
1914 A, 547.
1914 E, 377.
1915 A, 271, pls. and figs.
Case, E. C. 1910 C, 192, 195.
1922 B, 79.
Christman, E. S. 1921 A, 623.
Eastman, C. R. 1912 C, 658.
Fraas, E. 1911 B, 32.
Gilmore, C. W. 1915 C, 59.
1920 A, 67.
1920 B, *passim.*
1924 G, 32.
1925 A, 360.
Gregory, W. K. 1913 B, 244.
1913 E, 7.
1920 B, 123, fig. 42.
Gregory and Adams 1915 A, 763.
Heilmann, G. 1926 A, 207.
Hennig, E. 1924 A; 144.
Huene, F. 1908 B, 336, 408.
1909 B, 15 (=Dynamosaurus).
1914 C, 583.
1923 A, 456.
1925 B. 158.
1926 B, 46, 93, 101.
Janensch, W. 1925 A, *passim.*
1925 B, 274.
Joleaud, L. 1920 A, 493.
Knowlton, F. H. 1909 A, 232.
Lambe, L. M. 1917 B, 21.
Lull, R. S. 1910 A, 2, 15.
1912 A, 208 (Dynamosaurus).
1912 B, 776.
1917 A, 472, 474.
1917 B, 335, 728.
1924 A, 231, 271, fig. 23.
Lydekker, R. 1907 C, 456.
Matthew, W. D. 1910 D, 550.
1910 F, 3.
1915 C, 33, 46, figs. 15, 16.
1915 L, 26, 33, 46, figs. 5, 14-16.
1920 D, 544.
1922 C, 338.
Matthew and Brown 1922 A, 368, 374, 382.
1923 E, 9.
Moodie, R. L. 1913 A, 251.
Nopcsa, F. 1917 B, 338.
1918 A, 196.
1922 A, 114.
1923 H, 12, 93, 94, 110, 175, pl. iii, fig. 3.
1926 A, 638, text-fig. 3.
1928 A, 183.
Osborn, H. F. 1905 A, 259, 263 (Dynamosaurus; type *D. imperiosus* Osborn.
1906 A, 281, 284 (Dynamosaurus).

Osborn, H. F. 1909 A, 198.
1912 J, 4 (Dynamosaurus a syn.).
1913 A, 91.
1916 C, 150.
1917 A, 733.
1917 B, 215, 224, fig.
1917 C, 9, fig. 10.
1922 D, 723, 724, fig. 3.
1924 L, 145.
Parks, W. A. 1928 A.
Pompeckj, J. F. 1920 A, 112, 119.
Romer, A. S. 1923 A, 142, fig.
1923 C, 606, 611, figs. 2, 4-8.
1927 C, 231, fig. 1.
Schuchert and Levene 1927 A, 317, 324, figs.
Stanton, T. W. 1909 A, 247, 278.
Sternberg, C. H. 1911 B, 222.
Stromer, E. 1915 B, 4, 26.
Tornier, G. 1913 B, 368.
Troxell, E. L. 1921 A, 476.
Versluys, J. 1910 B, 253.
Whitnal, H. O. 1925 A, 10, pl. i.
Wieland, G. R. 1925 B, 559.
Williston, S. W. 1925 A, 87, fig. 70.
Zittel and Broili 1911 A, 281.
1923 A, 346.

Tyrannosaurus? amplus (Marsh).

Hay, O. P. 1902 A, 488 (Deinodon).
Bowen, C. F. 1915 A, 132, 149, 150 (Deinodon).
Matthew and Brown 1922 A, 376 (Tyrannosaurus? sp.).
Nopcsa, F. 1901 A, 253 (Aublysodon).
1901 B, 199 (Aublysodon).
Osborn, H. F. 1902 I, 13 (Aublysodon).
Upper Cretaceous (Lance); Wyoming.

Tyrannosaurus rex Osborn.

Osborn, H. F. 1905 A, 262, fig. 1.
Abel, O. 1908 D, (211).
1909 F, 460.
1911 B, 160.
1912 F, 405, fig. 379.
1916 A, 473, fig. 4.
1919 A, 599, figs. 466-472.
1922 C, 344, fig. 300.
1925 A, 67, 248, figs. 43, 44, 183, 184.
Anonymous 1906 B, 228.
1906 E, 411.
1910 B, 3 ("Tyrannosaurus").
Bowen, C. F. 1915 A, 134.
Brown, B. 1907 A, 841, 842.
1914 E, 358.
1915 C, 322, 6 figs. ("Tyrannosaurus").
1919 A, 429, fig. ("dinosaur").
Gilmore, C. W. 1916 D, 288 (Dynamosaurus imperiosus).
1920 B, 9, 12, 37, 121, text-fig. 2.
1924 B, 7.
Gregory, W. K. 1906 A, 15.
1913 E, 12, fig. 9.
Hay, O. P. 1910 B, 299.
1910 C, 4.
1911 B, 400.
Heilmann, G. 1913 B, 31, fig. 75.
1926 A, 47, figs. 32, 109, 122.
Huene, F. 1908 B, 281.
1915 B, 21, text-fig. 14.
1926 B, 89, pls. i, ii.
Hutchinson, H. N. 1910 A, 139, fig. 48.
Krull, F. 1906 A, 350.
Lull, R. S. 1907 B, 185.
1917 B, 510, pl. x; text-fig. 154.
Lydekker, R. 1913 A, 14.
Marsh, O. C. 1896 C, 206 (Ornithomimus grandis; not of 1890).
Matthew, W. D. 1910 F, 3, figs.
Matthew and Brown 1922 A, 378.
Moodie, R. L. 1915 D, 288.
1915 I, 156, 178, figs. 18, 19.
Osborn, H. F. 1905 A, 263, fig. 2 (Dynamosaurus imperiosus).
1906 A, 281, 284, pl. xxxix; text-figs. 1, 3-12 (Dynamosaurus imperiosus).
1912 J, pls. i-iv; text-figs. 1-8, 17-25.
1913 A, 91, pls. iv-vi.
1917 A, 762, pls. xxv, xxvii; text-figs. 17-21.
Peterson, W. 1924 A, 391, figs. 1-3?; fig. 4.
Pompeckj, J. F. 1920 A, 119.
Romer, A. S. 1927 B, 686 ("Tyrannosaurus").
Schuchert, C. 1910 A, 596.
Schuchert and Levene 1927 A, 319.
Sternberg, C. H. 1909 A, 115.
1909 C, 277.
1917 A, 153.
Stromer, E. 1915 B, 22, 27.
Woodward, A. S. 1910 C, 13, fig. 2.
Zittel and Broili 1923 A, 337, fig. 446.
Upper Cretaceous (Hell Creek); Montana: (Lance); Wyoming.

DROMÆOSAURINÆ Matthew and Brown.

Matthew and Brown 1922 A, 378.

DROMÆOSAURUS Matthew and Brown. Type *D. albertensis* Matthew and Brown.

Matthew and Brown 1922 A, 385.
Gilmore, C. W. 1924 B, 1.
Nopcsa, F. 1928 A, 183.
Simpson, G. G. 1926 H, 208.

Dromæosaurus albertensis Matthew and Brown.

Matthew and Brown 1922 A, 385, fig. 1.
Gilmore, C. W. 1924 B, 1, 7.
Upper Cretaceous (Belly River); Alberta.

Dromæosaurus? cristatus (Cope).

Hay, O. P. 1902 A, 488 (Dryptosaurus).
Bowen, C. F. 1915 A, 132, 149, 150 (Deinodon).
Gilmore, C. W. 1924 B, 3 (Deinodon).
Hatcher, J. B. 1905 B, 86 (Deinodon).
Matthew and Brown 1922 A, 376, 378 (Dromæosaurus?).
Nopcsa, F. 1901 A, 253 (Aublysodon).
Osborn, H. F. 1902 I, 13 (Deinodon).
Peale, A. C. 1912 A, 754 (Deinodon).
Upper Cretaceous (Lance); Wyoming: (Judith River); Montana.

Dromæosaurus? explanatus (Cope).

Hay, O. P. 1902 A, 488 (Dryptosaurus).
Bowen, C. F. 1915 A, 132, 148 (Deinodon).
Hatcher, J. B. 1903 D, 372 (Aublysodon).
1905 B, 86 (Deinodon).
Hay, O. P. 1910 B, 299 (Deinodon).
Lambe, L. M. 1902 A, 49 (Deinodon).
1904 C, 37, 48 (Deinodon).
Matthew and Brown 1922 A, 376 (Dromæosaurus sp.?).
Nopcsa, F. 1901 A, 253 (Lælaps).
1901 B, 199 (Lælaps).
1902 B, 104 (Lælaps).
Osborn, H. F. 1902 I, 13 (Deinodon).
1924 I, 7, fig. 7 (Deinodon).
Peale, A. C. 1912 A, 754 (Deinodon).
Upper Cretaceous (Judith River); Montana: (Belly River); Alberta.

Dromæosaurus? gracilis (Marsh).

Hay, O. P. 1902 A, 493 (Cœlurus).
Clark, Bibbins and Berry 1911 A, 89 (Cœlurus).
Gadow, H. 1901 B, 423 (Cœlurus).
Gilmore, C. W. 1920 B, 126, pl. xxxvi, figs. 3, 4 (Cœlurus).
1921 E, 585, 591, pl. cx, fig. 5 (Cœlurus).
Huene, F. 1926 B, pl. i (Cœlurus).
Lull, R. S. 1911 B, 174 (Cœlurus).
1911 C, 187, pl. xv, fig. 1 (Cœlurus).
Matthew and Brown 1922 A, 376, 378 (Dromæosaurus?).
Merrill, G. P. 1907 A, 66 (Cœlurus).
Mook, C. C. 1916 A, 143 (Cœlurus).
Simpson, G. G. 1926 H, 207 (Cœlurus?).
Lower Cretaceous (Arundel); Maryland. A species of doubtful generic position.

Dromæosaurus lævifrons (Cope).

Hay, O. P. 1902 A, 488 (Dryptosaurus).
Bowen, C. F. 1915 A, 132, 149, 150 (Deinodon).
Gilmore, C. W. 1924 B, 3 (Deinodon).
Hatcher, J. B. 1905 B, 86 (Deinodon).
Matthew and Brown 1922 A, 376.
Osborn, H. F. 1902 I, 13 (Deinodon).
Upper Cretaceous (Judith River); Montana.

ZAPSALIS Cope. Type *Z. abradens* Cope.

Hay, O. P. 1902 A, 490.
A genus of uncertain position.

Zapsalis abradens Cope.

Hay, O. P. 1902 A, 490.
Bowen, C. F. 1915 A, 130, 149.
Hatcher, J. B. 1905 B, 84 (Zaphsalis abradus).
Hay, O. P. 1910 B, 299.
Matthew and Brown 1922 A, 376 ("Dromæosaurus?").
Osborn, H. F. 1902 I, 12.
Peale. A. C. 1912 A, 754 (Zaphalis abradus).
Upper Cretaceous (Judith River); Montana: (Lance); Wyoming.

ORNITHOMIMIDÆ Marsh.

Hay, O. P. 1902 A, 494.
Arldt, T. 1907 D, 669.
Fürbringer, M. 1902 B, 729.
Gilmore, C. W. 1920 B, 129, 131.
1924 B, 10.
Huene, F. 1920 A, 162.
1921 D, 395.
1926 B, 97, 100, 103, 109.
Janensch, W. 1920 A, 229 ("cœlosaurier").
1925 A, 50.
Lull, R. S. 1924 A, 232.
Matthew, W. D. 1914 B, 387.
1915 C, 32.
1921 D, 211.
Matthew and Brown 1922 A, 368, 375, 378.
Nopcsa, F. 1923 H, 125 (Ornithomiminæ).
1928 A, 183 (Ornithomiminæ).
Osborn, H. F. 1917 A, 733.
1924 C, 12.
Van den Broeck, E. 1900 A, 87.
Williston, S. W. 1925 B, 292.
Zittel, K. A. 1890 A, 767.
Zittel and Broili 1923 A, 342, 366.

CŒLOSAURUS Leidy. Type *C. antiquus* Leidy.

Hay, O. P. 1902 A, 489.
Huene, F. 1909 B, 16.
Janensch, W. 1925 A, 50.
Lull, R. S. 1924 A, 232.
Matthew and Brown 1922 A, 373, 378.
Nopcsa, F. 1901 A, 253.
1928 A, 183.
Simpson, G. G. 1926 H, 208.

Cœlosaurus affinis (Gilmore).

Gilmore, C. W. 1920 B, 121, 131, 137, text-figs. 71-78 (Ornithomimus).
Clark, Bibbins and Berry 1911 A, 89 (Dryosaurus grandis).
Gilmore, C. W. 1921 E, 586, 591, pl. cxii, figs. 1, 3; pl. cxiii, figs. 1, 3; pl. cxiv, fig. 1.
Huene, F. 1926 B, 98, pls. i, ii (Ornithomimus).
Janensch, W. 1925 A, 32.
Lull, R. S. 1911 B, 176 (Dryosaurus grandis).
Lull, R. S. 1911 C, 204, pl. xix, figs. 6, 7; pl. xx, figs. 1-4 (Dryosaurus grandis).
Marsh, O. C. 1888 A, 93 (Allosaurus medius, part).
Matthew and Brown 1922 A, 377 (Cœlosaurus?)
Simpson, G. G. 1926 H, 207 (Ornithomimus).
Lower Cretaceous (Arundel); Maryland.

Cœlosaurus antiquus Leidy.

Hay, O. P. 1902 A, 489 (Cœlosaurus); 488 (Dryptosaurus macropus).
Huene, F. 1908 B, 336 (Dryptosaurus macropus).
1926 B, pl. i.
Matthew and Brown 1922 A, 373, 376 (Lælaps macropus a syn.?).
Upper Cretaceous (Greensand); New Jersey.

ORNITHOMIMUS Marsh. Type *O. velox* Marsh.

Hay, O. P. 1902 A, 494.
Abel, O. 1911 A, 176.
  1912 F, 265, 292, 408.
  1916 A, 405.
  1919 A, 583.
  1921 A, 264, 266.
  1924 A, 711 (Struthiomimus).
  1926 F, (37) (Ornithomimus, Struthiomimus).
Anonymous 1917 A, 213 (Struthiomimus).
Beddard, F. E. 1898 A, 155.
Boas, J. E. V. 1914 B, 570, fig. 22.
Brown, B. 1914 E, 377.
  1919 A, 411.
Cannon, G. L. 1894 A, 260.
Gadow, H. 1896 C, 205.
  1901 B, 429.
Gaudry, A. 1898 A, 127.
Gilmore, C. W. 1920 B, 129, 131.
  1924 A, 66.
  1924 B, 1, 4, 6 (Ornithomimus, Struthiomimus).
Hatcher, J. B. 1902 H, 831.
  1905 B, 87.
Hay, O. P. 1908 E, 357.
Heilmann, G. 1913 A, 8.
  1913 B, 18, 64.
  1914 A, 11.
  1926 A, 206, 207, fig. 109 (Struthiomimus).
Huene, F. 1901 A, 160.
  1908 B, 339, 408.
  1909 B, 15.
  1914 A, 146.
  1914 D, 155.
  1914 G, 34, pl. vii.
  1920 A, 162.
  1921 D, 390, 394.
  1923 A, 455.
  1925 B, 157.
  1926 B, 82, 85, 87 (Ornithomimus); 87 (Struthiomimus).
  1926 D, 487.
Janensch, W. 1920 A, 229.
  1925 A, 2, 41 (Ornithomimus); *passim* (Struthiomimus).
Joleaud, L. 1920 A, 493 (Struthiomimus).
Lambe, L. M. 1903 C, 468 A.
Lucas, F. A. 1902 B, 168, fig.
Lull, R. S. 1904 A, 472.
  1910 A, 15.
  1912 D, 415.
  1915 A, 155.
  1917 A, 472 (Struthiomimus).
  1917 B, 299, 513 (Ornithomimus); 513, 532 (Struthiomimus).
  1924 A, 231, 232, 256 (Struthiomimus, Ornithomimus).
Lydekker, R. 1912 C, 96.
Matthew, W. D. 1915 C, 58.
  1920 D, 544 (Struthiomimus).
Matthew and Brown 1922 A, 368, 373 (Ornithomimus, Struthiomimus).
Nopcsa, F. 1901 A, 255.
  1905 C, 292.
  1907 A, 232, fig. 79.
  1918 B, 239.
Nopcsa, F. 1922 C, 152, fig. 1 (Struthiomimus).
  1923 C, 469, fig. 5 (Struthiomimus).
  1923 E, 1046 (Ornithomimus, Struthiomimus).
  1923 H, 93, 95, 96, 173, 188 (Struthiomimus); 95, 96 (Ornithomimus).
  1924 B, 84 (Struthiomimus).
  1928 A, 183 (Ornithomimus, Struthiomimus).
Osborn, H. F. 1902 H, 673, 674, 675.
  1902 I, 9, 17, 18.
  1916 C, 150.
  1917 A, 733, 734 (Struthiomimus).
  1917 B, 213-215 (Ornithomimus); 213-215, 221, figs. (Struthiomimus).
  1917 C, 6 (Ornithomimus); 6, figs. 2-4 (Struthiomimus).
  1917 D, 660 (Strouthiomimus).
  1922 D, 724 (Ornithomimus).
  1924 C, 9 (Ornithomimus, Struthiomimus).
  1924 L, 145 (Ornithomimus, Struthiomimus).
Perrier, E. 1920 A, 318.
Rogers, A. F. 1924 A, 546 (Struthiomimus).
Schuchert, C. 1910 A, 596.
Simpson, G. G. 1926 H, 208.
  1926 J, 459.
Stanton, T. W. 1909 A, 247.
Steinmann, G. 1922 A, 241.
Sternberg, C. M. 1926 A, 103.
Versluys, J. 1910 B, 246.
Williston, S. W. 1925 A, 189, 191, fig. 156 (Ornithomimus); 191, 198, fig. 156 (Struthiomimus).
Zittel and Broili 1911 A, 283.
  1923 A, 342 (Struthiomimus).

Ornithomimus altus Lambe.

Lambe, L. M. 1902 A, 50, pls. xiii, xiv, xv, figs. 1-8.
Abel, O. 1919 A, 583, fig. 455.
  1922 C, 339, fig. 296 (Struthiomimus).
Bowen, C. F. 1915 A, 134, 148.
Brown, B. 1907 A, 842.
  1914 E, 358, 374, 378 (This species?).
Case, E. C. 1922 B, 80 (Struthiomimus).
Gilmore, C. W. 1919 E, 395 (Struthiomimus).
  1921 E, 587.
  1924 B, 1 (Ornithomimus).
Hatcher, J. B. 1905 B, 87.
Heilmann, G. 1913 B, 21, fig. 64.
  1926 A, 31, 47, 155, figs. 19, 32, 110, 118, 120, 126, 132 (Struthiomimus).
Huene, F. 1908 B, 305, fig. 300.
  1921 D, 392 (Struthiomimus).
  1926 B, 99, pl. i.
Janensch, W. 1925 A, *passim* (Struthiomimus).
Joleaud, L. 1920 A, 493, fig. 8 (Struthiomimus).
Lambe, L. M. 1903 B, 137.
  1904 A, 254.
  1904 C, 23, 37, 48.
  1904 E, 33, pl. i; pl. ii, figs. 4-7.
  1904 G, 20.
  1905 D, 363 A.
  1907 B, 179.
  1907 C, 222.

Lambe, L. M. 1914 D, 15.
1914 F, 297.
1915 B, 117.
1917 B, 28, 75.
Matthew, W. D. 1916 A, 484.
1921 G, 658, fig. (Struthiomimus).
Matthew and Brown 1922 A, 377, 379 (Struthiomimus).
Moodie, R. L. 1917 B, 392, fig. 20 (Struthiomimus).
1918 B, 386, 393, fig. 4 (Struthiomimus).
1923 B, 327, 331, pl. lxvii (Struthiomimus).
Osborn, H. F. 1902 H, 675.
1902 I, 13, 18.
1917 A, 737, pls. xxiv, xxvi, figs. 3-8, 11, 14-17 (Struthiomimus).
1924 C, 12 (Struthiomimus).
Peale, A. C. 1912 A, 754.
Steinmann, G. 1922 A, 242, fig. 1.
Van Straelen, V. 1928 A, 305 (Struthiomimus).
Zittel and Broili 1911 A, 283.
1923 A, 342, fig. 451 (Struthiomimus).
Upper Cretaceous (Belly River); Alberta: (Hell Creek); Montana.

Ornithomimus grandis Marsh.

Hay, O. P. 1902 A, 494.
Bowen, C. F. 1915 A, 134.
Gadow, H. 1901 B, 429.
Gilmore, C. W. 1920 B, 122, 131 (Deinodon?).
Hatcher, J. B. 1902 H, 831.
1904 A, 356.
1905 B, 12, 41, 87.
Hay, O. P. 1910 B, 299.
Huene, F. 1921 D, 392 (Struthiomimus).
Lambe, L. M. 1904 E, 33.
Matthew and Brown 1922 A, 377, 383 (Deinodon horridus?).
Osborn, H. F. 1902 I, 13.
1917 A, 740 (Deinodon?).
Stanton and Hatcher 1905 A, 12, 41.
Upper Cretaceous (Eagle); Montana: (Lance); Wyoming.
A species of doubtful generic position.

Ornithomimus minutus Marsh.

Hay, O. P. 1902 A, 494.
Bowen, C. F. 1915 A, 134.
Gilmore, C. W. 1920 B, 131, 142, fig. 79.
Lambe, L. M. 1904 E, 33.
Matthew and Brown 1922 A, 377 ("indeterminate").
Osborn, H. F. 1902 I, 13.
Upper Cretaceous (Lance); Wyoming.

Ornithomimus sedens Marsh.

Hay, O. P. 1902 A, 494.
Bigot, A. 1897 A, 464, fig. 4.
Bowen, C. F. 1915 A, 134.
Gilmore, C. W. 1920 B, 131, pl. xxxv, fig. 1; text-figs. 67-69.
Janensch, W. 1925 A, *passim.*
Lambe, L. M. 1904 E, 33, pl. ii, fig. 9.
Matthew and Brown 1922 A, 377, 378.
Merrill, G. P. 1907 A, 74.
Osborn, H. F. 1902 I, 13.
Upper Cretaceous (Lance); Wyoming.

Ornithomimus tenuis Marsh.

Hay, O. P. 1902 A, 494.
Bowen, C. F. 1915 A, 132.
Gilmore, C. W. 1920 B, 131, 135, text-fig. 70.
Hatcher, J. B. 1902 H, 831.
1905 B, 87.
Huene, F. 1921 D, 392 (Struthiomimus).
Lambe, L. M. 1904 E, 33.
Matthew and Brown 1922 A, 377, 378 (Struthiomimus).
Osborn, H. F. 1902 I, 13.
1917 A, 740 (Struthiomimus).
Upper Cretaceous (Judith River); Montana.

Ornithomimus velox Marsh.

Hay, O. P. 1902 A, 494.
Bigot, A. 1897 A, 467, figs. 11, 12.
Bowen, C. F. 1915 A, 134.
Cannon, G. L. 1906 B, 197.
Cross, W. 1896 A, 227.
Gilmore, C. W. 1920 B, 131.
Hatcher, J. B. 1902 H, 831.
Hay, O. P. 1908 E, 357.
Heilmann, G. 1926 A, 159, figs. 113, 126.
Huene, F. 1921 D, 392.
Lambe, L. M. 1904 C, 23.
1904 E, 33.
Matthew and Brown 1922 A, 377, 378.
Osborn, H. F. 1902 I, 13.
1917 A, 738, fig. 3 a.
Upper Cretaceous (Denver); Colorado: (Hell Creek); Montana.

Ornithomimus sp. indet.

Gilmore, C. W. 1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
Hay, O. P. 1903 D, 119.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.
1926 A, 104. Upper Cretaceous (Edmonton); Alberta.

MANOSPONDYLUS Cope. Type *M. gigas* Cope.

Hay, O. P. 1902 A, 500.
Hatcher, J. B. 1907 B, 113, 298.
Hay, O. P. 1903 D, 117.
Huene, F. 1909 B, 15.
Lull, R. S. 1907 B, 166, 298.
Troxell, E. L. 1921 A, 476.

Manospondylus gigas Cope.

Hay, O. P. 1902 A, 500.
Bowen, C. F. 1915 A, 140.
Hatcher, J. B. 1905 B, 96 (Monospondylus).
1907 A, 113, 298, fig. 105.
Lull, R. S. 1907 B, 298
Matthew and Brown 1922 A, 383.
Osborn, H. F. 1902 I, 15.
1917 A, 762, fig. 17*a*.
Upper Cretaceous (Lance?); South Dakota?, Wyoming?.

LABROSAURIDÆ Marsh.

Marsh, O. C. 1882 A, 84, 85.
Hay, O. P. 1902 A, 487 (Megalosauridæ).
Hoffmann, C. K. 1890 B, 1314.
Nopcsa, F. 1901 A, 249.
1928 A, 184.
Zittel and Broili 1911 A, 280.
1923 A, 245, 366.

LABROSAURUS Marsh. Type *Allosaurus lucaris* Marsh.

Marsh, O. C. 1879 B, 91.
Hay, O. P. 1902 A, 489 (Antrodemus, in part).
1908 E, 351.
Hoernes, R. 1886 A, 621.
Huene, F. 1909 B, 15.
1926 B, 88, 99, 109.
Janensch, W. 1925 A, 86, 89.
Lull, R. S. 1910 A, 15.
Nopcsa, F. 1901 A, 255.
1901 B, 201.
1902 B, 106.
Simpson, G. G. 1926 H, 211.
Stromer, E. 1915 B, 14 (Syn. of Antrodemus).
Zittel and Broili 1911 A, 280.
1923 A, 345.

Labrosaurus ferox Marsh.

Marsh, O. C. 1884 B, 333, pl. ix.
Hay, O. P. 1902 A, 490 (Antrodemus valens, part).
Gilmore, C. W. 1914 A, 25.
1920 B, 124, pl. xxxiii, figs. 1-3.
Hay, O. P. 1908 E, 352.
Huene, F. 1926 B, 89, pl. i.
Merrill, G. P. 1907 A, 73.
Nopcsa, F. 1901 A, 255.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

A species of uncertain generic position.

Labrosaurus lucaris (Marsh).

Hay, O. P. 1902 A, 489 (Antrodemus).
1908 E, 35.
1920, in Gilmore, C. W. 1920 B, 125.
Janensch, W. 1925 A, 89.
Mook, C. C. 1916 A, 141 (Antrodemus).

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Superfamily CŒLUROIDÆ, new name.

Abel, O. 1920 A, 388 (Cœlurosauria).
Heilmann, G. 1926 A, 204 ("cœlurosaurs").
Huene, F. 1914 A, 146 (Cœlurosauria).
1914 D, 154 (Cœlurosauria).
1914 F, 670 ("cœlosaurier").
1914 G, 32, 37 (Cœlurosauria).
1914 K, 11 (Cœlurosauria).
1920 A, 162 ("cœlurosaurier").
1921 C, 315 (Cœlurosauria).
1921 D ("cœlurosaurier").
1923 A, 457 (Cœlurosauria).
1925 G, 316 ("cœlurosaurier").
1926 B, 81, 98, 109 (Cœlurosauria).
Huene, F. 1926 D, 474 (Cœlurosauria).
Janensch, W. 1925 A, *passim* ("cœloraurier").
Lull, R. S. 1917 B, 504, 508 (Compsognatha).
1924 A, 231, 256 (Cœlurosauria).
Matthew, W. D. 1915 C, 32 (Cœlurosauria).
Nopcsa, F. 1922 A, 115 ("cœlurosaurier").
1923 H, 100, 103, 125, 146, 147, 173, 183, 184, tab. (Cœlurosauria).
1928 A, 183 (Cœlurosauroidea).
Simpson, G. G. 1926 I, 454 (Cœlurosauria).
1926 J, 458 (Cœlurosauria).
Williston, S. W. 1925 B, 292 (Cœlurosauridæ).
Zittel and Broili 1923 A, 340, 366 (Cœlurosauria).

CŒLURIDÆ Marsh.

Hay, O. P. 1902 A, 492.
Abel, O. 1919 A, 581.
Arldt, T. 1907 D, 646.
1909 A, 261 ("cœluriden").
1912 A, 662, 668.
Depéret, C. 1912 A, 705 ("cæluridés").
Gilmore, C. W. 1924 B, 10.
Günther, A. 1886 A, 443 (Cœluria).
Hoernes, R. 1886 A, 621.
Hoffmann, C. K. 1890 B, 1314 (Cœluria).
Huene, F. 1908 B, 264.
1914 A, 146.
1914 D, 155 ("cœluriden").
1914 G, 37, pl. vii.
1920 A, 162.
1921 D, 393, 395.
1926 B, 98.
Koken, E. 1900 A, 463 (Cœloruria, Cœluridæ).
Lull, R. S. 1910 A, 14.
1924 A, 231.
Matthew, W. D. 1915 C, 32.
Matthew and Brown 1922 A, 368, 375.
Nopcsa, F. 1901 A, 249, 275.
1923 H, 96, 125, 146, 172, 175 (Cœluridæ, Cœlurinæ).
1928 A, 183 (Compsognathidæ).
Palacký, J. 1902 B, 140 ("cœluriden").
Seeley, H. G. 1888 G, 169 (Cœluria).
Simpson, G. G. 1926 J, 458 (Cœlurosauria).
Tornier, G. 1913 B, 368, 375.
Wamich, P. 1913 A, 24 ("ornitholestiden").
Zittel and Broili 1911 A, 280.
1923 A, 341, 366.
Zittel, Eastman, etc. 1902 A, 231.

CŒLURUS Marsh. Type *C. fragilis* Marsh.

Unless otherwise indicated the authors, as cited, use for this genus the name *Ornitholestes.*

Hay, O. P. 1902 A, 493 (Cœlurus).
Abel, O. 1911 A, 169, 175.
1912 F, 71, 341.
1916 A, 471, 494.
1919 A, 583.
1920 A, 389.
1922 C, 434.
Andrews, C. W. 1921 C, 573.
Anonymous 1917 A, 213.
Case, E. C. 1898 C, 635 (Cœlurus).
Clark, Bibbins, and Berry 1911 A, 66 (Cœlurus).
Darton, N. H. 1908 A, 446.
Depéret, C. 1912 A, 705 (Cælurus).
Gilmore, C. W. 1920 B, 61, 64, 82, 145, 158; 126 (Ornitholestes a syn. ? of Cœlurus).
1924 B, 4.
Gregory and Camp 1918 A, 515, pl. xlvi.
Heilmann, G. 1913 A, 57, fig. 46.
1913 B, 36, 49.
1914 A, 64.
1916 A, 85, 105, fig. 198.
1926 A, 204, 206, fig. 19 (Ornitholestes, Cœlurus).
Hoernes, R. 1886 A, 621 (Cœlurus).
Huene, F. 1901 A, 160 (Cœlurus).
1906 B, 150.
1908 B, 273, 337 (Ornitholestes); 338 (Cœlurus).
1909 B, 13 (Cœlurus); 15 (Ornitholestes).
1914 D, 155 (Cœlurus).
1914 G, 34.
1915 A, 501.
1920 A, 162 (Cœlurus, Ornitholestes).
1921 C, 318.
1921 D, 390, 393, 395 (Ornitholestes, Cœlurus).
1923 A, 455.
1925 B, 158 (Ornitholestes, Struthiomimus).
1926 B, 86, pl. ii (Cœlurus); 85, 99, pl. ii (Ornitholestes).
1926 D, 486.
Janensch, W. 1920 A, 229.
1925 A, 20, 32, 46 (Cœlurus); *passim* (Ornitholestes).
Joleaud, L. 1920 A, 493.
Kingsley, J. S. 1925 A, 169, fig. 182.
Lambe, L. M. 1904 E, 34.
Lebedinsky, N. G. 1913 A, 767 (Cœlurus).
Lull, R. S. 1904 D, 144.
1910 A, 2, 15 (Ornitholestes); 14 (Cœlurus).
1911 B, 174 (Cœlurus).
1912 D, 415.
1915 A, 155.
1917 B, 508 (Cœlurus); 512, fig. 155 (Ornitholestes).
1924 A, 231 (Cœlurus); 231, fig. 24 (Ornitholestes).
Lydekker, R. 1912 C, 129 (Cœlurus).
Matthew, W. D. 1915 C, 27, 55, figs. 17, 18.
Matthew and Brown 1922 A, 368, 371, 375.
Mook, C. C. 1916 A, 153, 154 (Cœlurus).
1918 A, 467.
Nopcsa, F. 1901 A, 256 (Cœlurus).
1902 B, 106 (Cœlurus).
1906 A, 66 (Cœlurus, Ornitholestes).
1907 A, 235.
1918 B, 239.
1923 C, 469, fig. 5 (Ornitholestes); 470, fig. 6 (Cœlurus).
1923 E, 1046.
1923 H, 95, 96 (Ornitholestes); 96 (Cœlurus).
1928 A, 183 (Cœlurus, Ornitholestes).
Osborn, H. F. 1903 A, 459 (Ornitholestes, type *O. hermanni*).
1903 G, 701.
1904 Q, 692, figs.
1915 E, 147.
1916 C, 150.
1917 A, 733.
1917 B, 213.
1917 C, 5, fig. 1.
1924 C, 12.
Perrier, E. 1920 A, 316 (Cœlurus).
Romer, A. S. 1923 C, 609, 616.
Sauvage, H. E. 1902 B, 9 (Cœlurus).
Seeley, H. G. 1887 E, 197 (Cœlurus).
1904 A, 339 (Cœlurus); 341 (Ornitholestes).
Simpson, G. G. 1926 H, 206, 208, 215 (Cœlurus); 211, 215 (Ornitholestes).
Versluys, J. 1910 B, 192.
Whitnal, H. O. 1925 A, 22.
Wieland, G. R. 1925 B, 558 (Ornitholestes, Struthiomimus).
Williston, S. W. 1885 A, 629 (Cœlurus).
1886 A, 282 (Cœlurus).
1905 B, 345 (Cœlurus).
1925 A, 176.
Zittel and Broili 1911 A, 280 (Cœlurus); 283 (Ornitholestes).
1923 A, 341 (Cœlurus, Ornitholestes).
Zittel, Eastman, etc. 1902 A, 231 (Cœlurus).

Cœlurus agilis Marsh.

Hay, O. P. 1902 A, 493.
Gilmore, C. W. 1914 A, 25.
1920 B, 128, pl. xxxiv, figs. 5, 6.
Heilmann, G. 1926 A, 23, fig. 12.
Huene, F. 1926 B, pl. i.
Mook, C. C. 1916 A, 142.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming, Colorado.

Cœlurus fragilis Marsh.

Hay, O. P. 1902 A, 493.
Gilmore, C. W. 1909 B, 39, fig. 3.
1914 A, 4.
1920 B, 127, pl. xxxiv, figs. 4, 17, 18.
1921 E, 585.
Hoernes, R. 1886 A, 621.
Huene, F. 1908 B, 305, fig. 299.
1926 B, 99, pl. i.
Janensch, W. 1925 A, 20, 32.
Lull, R. S. 1911 C, 187.
Mook, C. C. 1916 A, 142.
Simpson, G. G. 1926 E, 3.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Cœlurus hermanni (Osborn).

Unless otherwise indicated the writers, as quoted, use the generic name *Ornitholestes.*

Osborn, H. F. 1903 A, 459, figs. 1-3.
Abel, O. 1920 A, 390, fig. 606.
 1921 A, 187, 264, fig. 46.
 1922 C, 436, fig. 364.
 1925 A, 66, fig. 42.
Brown, B. 1919 A, 428, fig. ("dinosaur").
Gilmore, C. W. 1915 E, 507 (O. hermani).
 1920 B, 61.
 1924 B, 5, 7, fig. 2.
Heilmann, G. 1913 B, 38, figs. 80, 81.
Huene, F. 1926 B, 82, 85, pl. i.
Janensch, W. 1925 A, 20, 32, 36.
Joleaud, L. 1920 A, 494.
Lambe, L. M. 1904 A, 254.
 1904 C, 23.
 1904 E, 34, pl. ii, fig. 8.
 1904 G, 22.
 1914 B, 130.
Mook, C. C. 1916 A, 143.
Osborn, H. F. 1903 G, 701.
 1904 B, 254.
 1904 F, 36.
 1917 A, 735, pl. xxvi; text-figs. 1-3.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

CHIROSTENOTES Gilmore. Type *C. pergracilis* Gilmore.

Gilmore, C. W. 1924 B, 3.
Osborn, H. F. 1924 C, 12.

Chirostenotes pergracilis Gilmore.

Gilmore, C. W. 1924 B, 3, pl. i; text-figs. 1, 3, 4.

Upper Cretaceous (Belly River); Alberta.

CŒLOPHYSIS Cope. Type *C. bauri* Cope; here chosen.

Hay, O. P. 1902 A, 493.
Broili, F. 1915 B, 51.
Case, E. C. 1922 B, 80.
 1927 B, 209.
Huene, F. 1906 B, 149.
 1908 B, 273, 305.
 1909 B, 13.
 1909 C, 322.
 1914 D, 154.
 1914 G, 32.
 1915 A, 500.
 1920 A, 162.
 1921 C, 318.
 1921 D, 393.
 1922 H, 148, 150.
 1926 B, 104.
 1926 E, 2.
Lull, R. S. 1910 A, 14.
Nopcsa, F. 1901 A, 255 (Syn. Tanystropheus).
 1922 B, 170 (Tanystrophæus).
 1923 H, 96.
 1928 A, 183.
Zittel and Broili 1911 A, 280.
 1923 A, 341.

Cœlophysis bauri Cope.

Hay, O. P. 1902 A, 493.
Abel, O. 1912 F, 274.
Broili, F. 1915 B, 51.
Case, E. C. 1922 B, 80.
 1927 B, 209.
Huene, F. 1906 B, 118, pl. xi, figs. 3, 4; pl. xii, fig. 1; text-fig. 20.
 1908 B, 278, 307, 318, pl. cx, fig. 1.
 1915 A, 500, figs. 42-51.
 1921 D, 392.
 1926 E, 5.
Nopcsa, F. 1901 A, 256, 257 (Tanystropheus).

Triassic; New Mexico.

Cœlophysis longicollis Cope.

Hay, O. P. 1902 A, 493.
Abel, O. 1912 F, 274.
Broili, F. 1915 B, 51.
Case, E. C. 1922 B, 80, 81.
 1927 B, 209, pl. i; text-figs. 1-9 (This species?).
Huene, F. 1906 B, 118, pl. x, figs. 2-10; pl. xi, figs. 1, 2; text-figs. 11-19.
 1908 B, 278, 307, 318.
 1915 A, 500, figs. 28-40.
 1921 D, 392.
 1926 E, 5.
Nopcsa, F. 1901 A, 255, 257 (Tanystropheus).

Triassic; New Mexico.

Cœlophysis willistoni Cope.

Hay, O. P. 1902 A, 493.
Abel, O. 1912 F, 274.
Broili, F. 1915 B, 51.
Case, E. C. 1922 B, 80.
 1927 B, 209.
Huene, F. 1906 B, 118.
 1908 B, 307, 318.
 1915 A, 500, figs. 52-64.
 1921 D, 392.
 1926 E, 5.
Nopcsa, F. 1901 A, 255-257 (Tanystropheus).

Triassic; New Mexico.

Cœlophysis sp. indet.

Case, E. C. 1922 B, 81, fig. 31.
 1926 A, 54. Triassic (Dockum); Texas.
 1927 A, 227. Triassic (Dockum); Texas.
Huene, F. 1926 E, 5. Triassic (Upper?); Texas.

TICHOSTEUS Cope. Type *T. lucasanus* Cope.

Hay, O. P. 1902 A, 493.
Huene, F. 1909 B, 13.
Nopcsa, F. 1901 A, 261.
Osborn and Mook 1921 A, 272, 274.

Tichosteus æquifacies Cope.

Hay, O. P. 1902 A, 493.
Mook, C. C. 1916 A, 142.
Osborn and Mook 1919 A, 390.

Osborn and Mook 1921 A, 273, text-fig. 16.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Tichosteus lucasanus Cope.

Hay, O. P. 1902 A, 493.
Cope, E. D. 1877 F, 195.
Mook, C. C. 1916 A, 142.
Osborn and Mook 1919 A, 390.
1921 A, 272, text-fig. 15.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

MACELOGNATHIDÆ Marsh.

Hay, O. P. 1902 A, 505.

MACELOGNATHUS Marsh. Type *M. vagans* Marsh.

Hay, O. P. 1902 A, 505.

Macelognathus vagans Marsh.

Hay, O. P. 1902 A, 505.
Gilmore, C. W. 1909 B, 39.
Moodie, R. L. 1908 C, 321.
Mook, C. C. 1916 A, 147.
Simpson, G. G. 1926 E, 3.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

PODOKESAURIDÆ Huene.

Huene, F. 1914 A, 146.
Abel, O. 1919 A, 580.
Huene, F. 1914 D, 154 ("podokesauriden").
1914 G, pl. vii.
1914 K, 11.
1915 A, 501.
1920 A, 162.
1921 D, 394, 399.
Lull, R. S. 1915 A, 155.
1917 D, 111.
1924 A, 231.
Matthew, W. D. 1915 C, 32.
Nopcsa, F. 1923 H, 125 (Podokeosaurinæ).
1928 A, 183 (Podokesauridæ, Podokesaurinæ, Cœlophysinæ).

PODOKESAURUS Talbot. Type *P. holyokensis* Talbot.

Talbot, M. 1911 A, 469.
Abel, O. 1920 A, 388, fig. 604.
Heilmann, G. 1916 A, 90.
Huene, F. 1914 D, 154.
1914 F, 672.
1914 G, 31.
1920 A, 162.
1921 D, 393.
1923 A, 456.
1926 B, pl. ii.
Janensch, W. 1925 A, 50 (Podekosaurus).
Lull, R. S. 1912 D, 414.
1915 A, 156.
1924 A, 231.
Nopcsa, F. 1923 E, 1045 (Podokeosaurus).
1923 H, 96 (Podokeosaurus).
1928 A, 183.
Osborn, H. F. 1917 B, 211, fig.
Schuchert and Levene 1927 A, 318, fig.
Whitnal, H. O. 1925 A, 9.
Zittel and Broili 1923 A, 340.

Podokesaurus holyokensis Talbot.

Talbot, M. 1911 A, 469, pl. iv; text-figs. 1-4.
Abel, O. 1912 F, 71, 274.
1926 B, 20, 38.
Heilmann, G. 1913 B, 25, 56, figs. 68, 90, 93-95.
1916 A, 113, fig. 202.
1926 A, 206, figs. 114, 121.
Huene, F. 1914 G, 31, pl. vi.
1926 E, 6.
Lull, R. S. 1914 D, 411, 414, 415, fig. 4.
1915 A, 157, 201, pl. xi; text-figs. 26-29.
1917 B, 508, fig. 152.
1917 D, 111, 112, pl. iii, fig. 2.
Moodie, R. L. 1913 A, 251.
Shufeldt, R. W. 1916 F, 258.
Triassic (Newark); Massachusetts.

HALLOPIDÆ Marsh.

Hay, O. P. 1902 A, 494.
Abel, O. 1919 A, 581.
Brauns, D. 1890 A, 187 ("hallopoden").
Hoernes, R. 1886 A, 623 (Hallopoda).
Hoffmann, C. K. 1890 B, 1314 (Hallopoda, Hallopodidæ).
Huene, F. 1914 A, 146 (Hallopoda).
1914 D, 155 (Hallopoda).
1914 G, 37, pl. vii (Hallopoda).
1920 A, 162 (Hallopoda).
1921 D, 394, 399 (Hallopida).
Huene, F. 1926 B, 97, 98, 101 (Hallopoda).
Koken, E. 1900 A, 462 (Hallopida, Hallopidæ).
Lull, R. S. 1924 A, 231.
Matthew, W. D. 1915 C, 32 (Hallopodidæ).
Nopcsa, F. 1901 A, 249 (Hallopodidæ; subfam. Cœluridæ).
1901 B, 195, 201 (Hallopodidæ).
1923 H, 96, 125 (Halopodidæ, Halopodinæ, Hallopodinæ).
1928 A, 183 (Hallopodidæ).
Zittel and Broili 1923 A, 340, 366 (Hallopodidæ).

HALLOPUS Marsh. Type *Nanosaurus victor* Marsh.

Hay, O. P. 1902 A, 494.
Abel, O. 1911 A, 190.
1912 F, 292.
Beddard, F. E. 1898 A, 157.
Case, E. C. 1898 C, 635.
Cross and Howe 1905 A, 494.
Hay, O. P. 1910 C, 17.
Hoernes, R. 1886 A, 623.

Hoffmann, C. K. 1890 B, 1314.
Huene, F. 1901 A, 160.
1908 B, 392.
1914 G, 21, 22.
1920 A, 162.
1921 D, 393.
1926 B, 98.
Huene and Lull 1908 A, 134, 143.
1908 B, 113.
Lull, R. S. 1910 A, 17.
1924 A, 231.
Nopcsa, F. 1901 A, 256.
1905 C, 292.
1918 B, 239.
1923 E, 1045.
1923 H, 96, 146, pl. vi, fig. 12*a*.
1928 A, 183.
Peck, F. B. 1904 A, 36 (Hollopus).
Schuchert, C. 1918 B, 262.
Williston, S. W. 1925 A, 118, 190, 192, fig. 155.
Woodward, A. S. 1907 B, 143.
Woodward, H. 1904 B, 145.
Zittel and Broili 1911 A, 261.
1923 A, 340.
Zittel, Eastman, etc. 1902 A, 231.

Hallopus victor Marsh.

Hay, O. P. 1902 A, 494.
Dollo, L. 1889 H, 680.
Gadow, H. 1901 B, 423.
Gilmore, C. W. 1925 B, 404 (Nannosaurus).
Hoffmann, C. K. 1890 B, 1314.
Huene, F. 1914 G, 23, pl. v; text-figs. 50-58.
1921 D, 392.
Huene and Lull 1908 B, 113, figs. 1-6.
Lambe, L. M. 1917 B, 75.
Lull, R. S. 1926 A, 458 ("Hallopus").
Lydekker, R. 1909 C, 461 (Hallopas).
Nopcsa, F. 1902 C, 152 (Nanosaurus).
Peck, F. B. 1904 A, 30.
Williston, S. W. 1905 B, 338.
1915 D, 127 ("Hallopus").
Upper Triassic (Hallopus beds); Colorado.

Suborder SAUROPODA Marsh.

Marsh, O. C. 1878 F, 412.
Hay, O. P. 1902 A, 482 (Opisthocœlia).
Abel, O. 1909 C, (119) ("sauropoden").
1911 A, 159.
1912 F, 404 ("sauropoden").
1916 A, 494 ("sauropoden").
1919 A, 606.
Ameghino, F. 1906 A, 38 ("sauropodes").
Anonymous 1878 A, 76.
1910 A, 198 ("sauropod dinosaurs").
1922 A, 184.
Arldt, T. 1907 D, 680.
1909 A, 263 ("sauropoden").
1912 A, 668, 678.
Bigot, A. 1897 A, 463 ("sauropodes").
Broom, R. 1914 H, 1076.
1924 B, 64, fig. 13.
Case, E. C. 1897 D, 88.
1898 C, 636.
Cope, E. D. 1885 BB, 68 (Opisthocœla).
Depéret, C. 1896 A, 181 ("sauropodes").
1912 A, 705 ("sauropodes").
Dollo, L. 1889 H, 677 ("sauropodes").
1905 B, 251 ("sauropodes").
1906 A, 445 ("sauropodes").
Drevermann, F. 1911 A, 274.
Fraas, E. 1908 A, 137.
1911 B, 32 ("sauropoden").
Fürbringer, M. 1888 A, 1620.
Gadow, H. 1896 C, 204.
1901 B, 418.
Gilmore, C. W. 1907 A, 164 (Opisthocœlia).
1909 A, 239 (Opisthocœlia).
1927 B, 96.
Gregory, W. K. 1919 A, 18.
Günther, A. 1886 A, 443.
Haeckel, E. 1868 A, 455 (Stenosauria).
Hatcher, J. B. 1901 D, 54.
1903 A, 47 (Opisthocœlia).
1904 A, 353.
1907 A, 10.
Hay, O. P. 1908 C, 672.
1911 B, 398.
Heilprin, A. 1887 A, 161.
Hennig, E. 1912 B, 99 ("sauropoden").
Hoernes, R. 1886 A, 612.
Hoffmann, C. K. 1890 B, 1311.
Holland, W. J. 1905 E, 683.
1912 A, 206.
1915 C, 153 ("sauropod dinosaur").
1923 A, 477.
Huene, F. 1908 B, 340.
1908 D, 294 ("sauropoden").
1909 B, 13.
1914 A, 145.
1914 D, 155 ("sauropoden").
1914 G, 27.
1922 A, 80, 86 ("sauropoden").
1926 D, 474.
1927 B, 444 ("sauropoden").
1927 C, 121.
Jaekel, O. 1910 A, 276 ("sauropoden").
1914 A, 197 (Allophagi).
Janensch, W. 1914 A, 43, figs. 16, 17.
Johnson, A. 1883 A, 408.
Koken, E. 1893 B, 395 ("sauropoden").
1900 A, 463.
Lafitte, J. P. 1905 A, 409 ("sauropodes").
Larkin, P. 1910 A, 93, figs. 1-4 ("sauropod").
Lebedinsky, N. G. 1913 A, 769 ("sauropoden").
Lucas, F. A. 1902 B, 153.
Lull, R. S. 1910 A, 2, 6, 16.
1912 A, 209.
1914 D, 355.
1915 C, 324.
1915 F, 833.
1917 A, 472.
1917 B, 505, 513.
1918 C, 130.
1919 C (Sauropoda).
1924 A, 229, 232, 258, 275.
Lydekker, R. 1912 C, 29.
Matthew, W. D. 1910 D, 549.
1915 A, 275.
1915 C, 24, 28, 32, 60 (Opisthocœlia, Sauropoda).

Matthew, W. D. 1923 C, 408.
Moodie, R. L. 1909 G, 363.
1926 A, 87, text-fig. 8 ("sauropods").
Mook, C. C. 1917 A, 355.
1918 A, 458.
Mudge, B. F. 1897 A, 224.
Nopcsa, F. 1900 A, 560 ("sauropoden").
1901 A, 257.
1901 B, 203.
1902 C, 174.
1905 C, 289 (Saurischia).
1905 D, 289.
1907 A, 231.
1911 A, 148.
1915 B, 18.
1917 A, 204.
1917 B, 338.
1918 B, 240 ("sauropoden").
1922 A, 115 ("sauropoden").
1923 D, 107, 113.
1923 E, 1046.
1923 H, 97-175, tab.
1926 A, 640.
1928 A, 184.
Osborn, H. F. 1903 D, 456, 466 (Ceteosauria).
1903 G, 701, 837.
1904 H, 114 (Opisthocœlia).
1904 I, 271, 272 (Opisthocœlia).
1904 J, 255 (Opisthocœlia).
1904 N, 308 (Opisthocœlia).
1905 C, 295 (Opisthocœlia).
1906 D, 283.
1912 J, 6.
1917 B, 320.
Osborn and Granger 1901 A, 199.
Osborn and Mook 1919 A, 396.
1921 A.
Owen, R. 1866 A, 17, 69 (Opisthocœlia).
Palacký, J. 1902 B, 141.
Peale, A. C. 1912 A, 748.
Peck, F. B. 1904 A, 30.
Perrier, E. 1920 A, 312 ("sauropodes").
Pompeckj, J. F. 1921 A, 2 ("sauropoden").
Reynolds, S. H. 1897 A, 205, 273, 276.
Riggs, E. S. 1903 C, 165, 167 (Opisthocœlia).
1904 B, 244 (Opisthocœlia).
Schaffer, F. X. 1912 A, 198 ("sauropoden").
Seeley, H. G. 1888 G, 168, 171.
Simpson, G. G. 1926 H, 205.
Steinmann, G. 1907 A, 449.
1908 A, 219 ("sauropoden").
1910 A, 99 ("sauropoden").
Stremme, H. 1909 B, 796 ("sauropoden").
Stromer, E. 1912 A, 86.
1913 A, 62.
Terra, P. 1911 A, 241 ("sauropoden").
Thevenin, A. 1907 B, 124, 128 ("sauropodes").
Tornier, G. 1913 B, 368, 374 (Diplodocia).
Van den Broeck, E. 1900 A, 82 ("sauropodes").
Van Straelen, V. 1925 A, 3, fig. 2 ("dinosaur, duckbilled type").
Versluys, J. 1910 B, 214 ("sauropoden").
1910 C, 425 ("sauropoden").
1912 B, 683, 687.
Wieland, G. R. 1907 A, 66 ("sauropods").
1910 C, 93 ("sauropod").
1925 B, 557 ("sauropods").
Williston, S. W. 1914 A, 18, 45.
1917 C, 412.
1918 A, 79.
1925 A, 95, 100, 102, 111, 123, 142, 170, 176, 197.
1925 B, 212, 292.
Woodward, A. S. 1905 A, 243.
1922 C, 16.
Woodward, H. 1904 B, 146.
Zittel and Broili 1911 A, 283.
1923 A, 336, 347, 366.
Zittel, Eastman, etc. 1902 A, 231.

CAMARASAURIDÆ Cope.

Cope, E. D. 1877 R, 3.
Unless otherwise indicated the authors, as quoted, call this family Morosauridæ.
Hay, O. P. 1902 A, 482 (Morosauridæ); 484 (Atlantosauridæ).
Arldt, T. 1907 D, 666.
1909 A, 262 ("morosauriden").
1912 A, 668, 678, 679, 689.
Dollo, L. 1889 H, 677.
Fraas, E. 1908 A, 140.
Frech, F. 1906 A, 495 ("morosaurier").
Günther, A. 1886 A, 443.
Hoernes, R. 1886 A, 613.
Hoffmann, C. K. 1890 B, 1311.
Huene, F. 1908 B, 347 (Cetiosauridæ).
1908 D, 296 ("cetiosauriden").
1909 B, 14.
1914 G, 38, pl. vii.
Huene, F. 1927 B, 460.
1927 C, 123.
Jaekel, O. 1914 A, 197 ("morosauriden").
Koken, E. 1898 A, 141.
1900 A, 463 (Morosauridæ, Pleurocœlidæ).
Lull, R. S. 1915 C, 232 (Morosauridæ); 333 (Pleurocœlidæ).
1924 A, 234.
Matthew, W. D. 1915 C, 32 (Cetiosauridæ).
Nopcsa, F. 1923 H, 99, 126.
1928 A, 184 (Morosauridæ, Camarasaurinæ).
Tornier, G. 1913 B, 370, 375.
Williston, S. W. 1925 B, 293.
Woodward, A. S. 1905 A, 243.
Zittel and Broili 1911 A, 287 (Morosauridæ): 285 (Cetiosauridæ).
1923 A, 351, 366.

CAMARASAURUS Cope. Type *C. supremus* Cope.

Cope, E. D. 1877 Q, 7 (Not Cope, E. D. 1877 A, as in Hay, O. P. 1902 A, 485).
Unless otherwise indicated the authors, as cited, used for this genus the name *Morosaurus*.
Hay, O. P. 1902 A, 483 (Morosaurus); 485 (Camarasaurus).
Abel, O. 1909 C, (120).
1910 D.
1912 F, 248.

Abel, O. 1916 A, 469, fig. 1.
1925 A, 243 (Camarasaurus, Morosaurus).
Andreae, A. 1903 A, 151 (Camarasaurus, Morosaurus).
Arthaber, G. 1924 A, 450.
Brauns, D. 1890 A, 187.
Case, E. C. 1898 C, 638 (Camarasaurus); 720 (Morosaurus).
Christman, E. S. 1921 A, 622, 623, figs.
Cope, E. D. 1880 U, 145 (Camarosaurus).
Cross, W. 1907 A, 640.
Darton, N. H. 1908 A, 446.
Dollo, L. 1889 H, 677.
Fraas, E. 1908 A, 140 (Morosaurus); 141 (Camarasaurus).
Gaudry, A. 1896 A, 61 (Camarosaurus); 146 (Morosaurus).
Gilmore, C. W. 1907 A, 158, fig. 9.
1922 A, 2, 4 (Camarasaurus).
1925 A, 350 (Camarasaurus).
1925 B, 408 (Camarasaurus).
Gratacap, L. P. 1902 A, 5 (Camarasaurus, Morosaurus).
Gregory, W. K. 1901 A, 145.
1920 C, 16 (Camarasaurus).
1921 B, 622, 623, figs. (Camarasaurus).
1927 C, 171 (Camarasaurus).
Hatcher, J. B. 1901 C, 336.
1901 D, 40.
1902 B, 356, text-fig. 14.
1903 A, 14.
Hay, O. P. 1908 C, 680 (Camarasaurus).
1924 E, 112 (Camarasaurus).
Heilprin, A. 1887 A, 161 (Morosaurus); 169 (Camarasaurus).
Hoffmann, C. K. 1890 B, 1315 (Camarasaurus).
Holland, W. J. 1912 A, 204.
1923 A, 477-479 (Camarasaurus).
1924 A, 120 (Camarasaurus).
Hooley, R. W. 1917 A, 149.
Huene, F. 1904 A, 323.
1906 B, 151, fig. 100.
1908 B, 347 (Camarasaurus, Morosaurus).
1908 D, 294.
1909 B, 14 (Camarasaurus, Morosaurus).
1914 C, 578, pl. viii, figs. 1, 2; 579, pl. viii, fig. 3 (Camarasaurus).
1922 A, 87 (Camarosaurus).
1927 A, 123 (Camarasaurus).
1927 C, 123 (Camarasaurus).
Janensch, W. 1914 B, 91.
1922 A, 478.
Knight, W. C. 1900 A, 454 ("dinosaur").
Lebedinsky, N. G. 1913 A, 767.
Lucas, F. A. 1902 B, 155, fig. (Camarasaurus); 163 (Morosaurus).
Lull, R. S. 1910 A, 7.
1911 C, 191.
1915 C, 331, 332.
1917 A, 474.
1924 A, 234 (Morosaurus, Camarasaurus).
Lydekker, R. 1887 E, 158 (Camarasaurus, Morosaurus).
Matthew, W. D. 1915 C, 27, fig. 6 (Camarasaurus).
1923 B, 108 (Camarasaurus).
1923 C, 408 (Camarasaurus).
Mook, C. C. 1914 A, 223 (Camarasaurus); 225 (Morosaurus).
1914 B, 19 (Morosaurus a syn.).
1917 B, 815 (Camarasaurus).
Mudge, B. F. 1879 A, 225 (Camarasaurus).
Nopcsa, F. 1900 A, 560 (Camarasaurus).
1901 A, 258 (Camarasaurus); 260 (Morosaurus).
1902 B, 111 (Camarasaurus).
1917 B, 341, fig. 6 (Camarasaurus).
1923 H, 97, 98, 99 (Camarasaurus); 98 (Morosaurus).
1925 A, 19 (Morosaurus).
Osborn, H. F. 1901 G, 159.
1904 C, 181, seq., figs. 1, 2.
1904 I, 35 (Morosaurus); 36 (Camarasaurus).
1904 Q, 686 (Camarasaurus); 689 (Morosaurus).
1905 G, 374.
1906 D, 282, 284.
1915 E, 145 (Camarasaurus).
1916 D, 151 (Morosaurus a syn.).
1917 B, 219, fig. (Camarasaurus).
1924 I, 1, fig. 1 (Camarasaurus).
Osborn and Granger 1901 A, 199, figs. 1-3, 5, 6.
Osborn and Mook 1917 A, 215 (Camarasaurus).
1919 A, 386, 391, pl. i, figs. 1-3 (Morosaurus a syn.).
1920 A, 15 (Camarasaurus).
1921 A, 249, pls. lx-lxxxv; text-figs. 29-126 (Camarasaurus).
Peck, F. B. 1904 A, 31.
Pompeckj, J. F. 1920 A, 112, 127.
1921 A, 2.
Reynolds, S. H. 1897 A, 207, 294.
Riggs, E. S. 1901 C, 275 (Morosaurus); 281, pl. xlii, fig. 4 (Camarasaurus).
1903 A, 304 (Morosaurus, Camarasaurus).
1903 C, 165, 181, pl. xlix, fig. 2 (Morosaurus); 180 (Camarasaurus).
1904 B, 245 (Camarasaurus, Morosaurus).
Riggs and Farrington 1902 A, 22062.
Romer, A. S. 1923 C, 606, fig. 2 (Camarasaurus).
Ryder, J. A. 1919 A, 390 (Camarasaurus).
Schuchert, C. 1910 A, 582.
Seeley, H. G. 1888 G, 168, fig.
Seitz, A. L. L. 1907 A, 309.
Simpson, G. G. 1926 E, 4.
1926 H, 205, 206, 210.
Steinmann, G. 1907 A, 443.
Stose, G. W. 1912 A, 3.
Thevenin, A. 1907 B, 124.
Tornier, G. 1909 B, 510, figs. 2, 3 (Morosaurus); 515 (Camarasaurus).
1909 C, 537.
1910 A, 543.
1913 B, 370.
Versluys, J. 1910 B, 214.
1910 C, 428, figs. C, D.
Wieland, G. R. 1920 A, 530 (Camarasaurus).
Williston, S. W. 1909 A, 397.
1909 E, 194.
1925 A, 141, 175, 191, figs. 113, 141, 156.
1925 B, 293 (Camarasaurus).
Zittel and Broili 1911 A, 287 (Camarasaurus, Morosaurus).

Zittel and Broili 1923 A, 347, figs. 460, 461 (Camarasaurus, Morosaurus).
Zittel, Eastman, etc. 1902 A, 233 (Camarasaurus); 235 (Morosaurus).

Camarasaurus agilis (Marsh).

Hay, O. P. 1902 A, 483 (Morosaurus).
Baur, G. 1894 B, 350 (Morosaurus).
Gilmore, C. W. 1907 A, 151, pls. xii, xiii; text-figs. 1-5, 7 (Morosaurus).
1914 A, 25 (Morosaurus).
1925 A, 352, 368 (Not this genus).
Huene, F. 1908 B, 281, fig. 317 (Morosaurus).
Merrill, G. P. 1907 A, 74 (Morosaurus).
Mook, C. C. 1916 A, 139 (Morosaurus).
Pompeckj, J. F. 1920 A, 112 (Morosaurus).
Riggs, E. S. 1901 C, 275 (Morosaurus).
Tornier, G. 1909 C, 542 (Morosaurus).
Versluys, J. 1910 B, 214 (Morosaurus).
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Camarasaurus impar (Marsh).

Unless otherwise indicated the authors, as quoted, refer this species to *Morosaurus grandis.*

Hay, O. P. 1902 A, 483 (M. grandis, M impar).
Abel, O. 1919 A, 608, fig. 475.
1922 C, 422, fig. 350.
1925 A, 244, fig. 179.
Anonymous 1878 A, 76.
Gadow, H. 1901 B, 419, fig. 96.
Gaudry, A. 1896 A, 146, fig. 119.
Geinitz and Deichmüller 1882 B, 14.
Gilmore, C. W. 1907 A, 151, fig. 6 (M. grandis); 163 (M. impar).
1925 A, 352 (C. impar, M. impar); 353, 378, 380, 382 (C. grandis); 352, 353, 371, 380, 381 (M. grandis).
Huene, F. 1908 B, 342, fig. 319.
Janensch, W. 1914 B, 96.
Kehrer, F. A. 1896 A, 355, figs. 25, 26.
Lull, R. S. 1911 C, 191.
Mook, C. C. 1916 A, 135 (M. grandis); 137 (M. impar).
Nopcsa, F. 1901 A, 257 (Apatosaurus grandis)
1901 B, 203, 206 (Apatosaurus grandis).
Osborn, H. F. 1906 D, 283, fig. 2.
Pompeckj, J. F. 1920 A, 112, 120.
Riggs, E. S. 1901 C, 275, pls. xl, xli; pl. xlii, figs. 1, 2 (M. grandis); 275 (M. impar).
1903 C, 170 (Apatosaurus grandis).
Schuchert, C. 1918 B, 253, 255.
Versluys, J. 1910 B, 214, figs. P, Q.
Williston, S. W. 1909 E, 198.
Zittel and Broili 1911 A, 286, figs. 432, 433.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming, Colorado.

Camarasaurus lentus (Marsh).

In the following citations this species is referred to *Morosaurus* unless otherwise indicated.

Hay, O. P. 1902 A, 483.
Bigot, A. 1897 A, 466, fig. 8.
Gilmore, C. W. 1907 A, 163.
1909 A, 198.
1914 A, 4.
1925 A, 352, pls. xiii-xvii; text-figs. 1-5.
Huene, F. 1908 B, 343, fig. 320.
1927 B, 460, 465 (Camarasaurus).
1927 C, 124 (Camarasaurus).
Lull, R. S. 1911 C, 194.
1919 C, 39.
Moodie, R. L. 1907 A, 89.
Mook, C. C. 1916 A, 138.
Riggs, E. S. 1901 C, 275.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Camarasaurus leptodirus Cope.

Hay, O. P. 1902 A, 486.
Mook, C. C. 1916 A, 137.
Osborn and Mook 1921 A, 267, text-fig. 14.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Camarasaurus robustus (Marsh).

Hay, O. P. 1902 A, 483 (Morosaurus).
Gilmore, C. W. 1907 A, 163 (Morosaurus).
1925 A, 352.
Janensch, W. 1914 B, 96 (Morosaurus).
Mook, C. C. 1916 A, 137 (Morosaurus).
Riggs, E. S. 1901 C, 275, pl. xlii, fig. 3 (Morosaurus).
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Camarasaurus supremus Cope.

Hay, O. P. 1902 A, 486.
Abel, O. 1925 A, 244, figs. 178, 181, 182, 185.
Ballou, W. H. 1897 A, 22.
Cope, E. D. 1878 KK, 476.
1891 N, 43, fig. 21.
Gilmore, C. W. 1925 A, 352, 366, 370.
Gregory, W. K. 1927 C, 172, fig. 3.
Hatcher, J. B. 1901 C, 339.
Holland, W. J. 1924 A, 124, fig. 2.
Huene, F. 1922 A, 87 (Camarosaurus).
1927 B, 460 (Morosaurus).
Lull, R. S. 1926 A, 458.
Matthew, W. D. 1903 F, 5 ("Camarasaurus").
Mook, C. C. 1914 A, 223, figs. 1-3.
1914 B, 19, fig. 1.
1916 A, 135.
Osborn, H. F. 1906 D, 282.
Osborn and Mook 1921 A, 262, pls. lxxi-lxxxv; text-figs. 7-13, 31.
Riggs, E. S. 1903 A, 305.
Williston, S. W. 1915 D, 127.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Camarasaurus sp. indet.

Cross, W. 1907 B, 6 (Morosaurus). Upper Cretaceous (McElmo); Colorado.
Lee, W. T. 1902 A, 37 (Morosaurus). Upper Jurassic or Lower Cretaceous (Morrison); Colorado.
Mook, C. C. 1916 A, 57, 94, 96 (Morosaurus). Upper Jurassic or Lower Cretaceous (Morrison); Colorado, Wyoming.
Simpson, G. G. 1926 E, 3 (Morosaurus). Upper Jurassic; Wyoming.

UINTASAURUS Holland. Type *U. douglassi* Holland.

Holland, W. J. 1919 A, 38.
1924 A, 119.
Huene, F. 1927 B, 467.
1927 C, 125.

Uintasaurus douglassi Holland.

Holland, W. J. 1919 A, 38.
Gilmore, C. W. 1925 A, 384.
Holland, W. J. 1924 A, 119, pls. x-xiv; 7 text-figs.
Huene, F. 1927 B, 465.

Lower Cretaceous or Upper Jurassic (Morrison); Utah.

EPANTERIAS Cope. Type *E. amplexus* Cope.

Hay, O. P. 1902 A, 483.
Cope, E. D. 1880 U, 146.
Huene, F. 1909 B, 15.
Nopcsa, F. 1901 A, 259.
Osborn and Mook 1920 A, 15.
1921 A, 282, 284.
Williston, S. W. 1925 B, 293.

Epanterias amplexus Cope.

Hay, O. P. 1902 A, 483.
Mook, C. C. 1916 A, 137.
Osborn and Mook 1921 A, 282, text-figs. 24-27.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

HAPLOCANTHOSAURUS Hatcher. Type *H. priscus* Hatcher.

Hatcher, J. B. 1903 G, 100 (To replace *Haplocanthus*, preoccupied).
Fraas, E. 1908 A, 141.
Gilmore, C. W. 1907 A, 163.
1922 A, 2, 4.
1925 A, 367, 372.
1903 A, 1, 14, figs. 7-13.
Hatcher, J. B. 1903 A, 1, 14, figs. 7-13.
1903 F, 1 (Haplocanthus, preoccupied).
Holland, W. J. 1910 A, 265, fig. 4.
1912 A, 204 (Haplacanthosaurus).
1924 A, 124 (Haplacanthasaurus).
Huene, F. 1908 B, 347.
1908 D, 294.
1909 B, 14.
1927 B, 457.
1927 C, 122, 123.
Janensch, W. 1925 B, 272 (Haplacanthosaurus).
Joleaud, L. 1920 A, 493.
Lull, R. S. 1910 A, 2.
1919 C, 41.
1924 A, 234.
Moodie, R. L. 1907 A, 89.
Mook, C. C. 1916 A, 154.
Nopcsa, F. 1906 A, figs. 1, 3, 13, 16.
1923 H, 98.
1928 A, 184.
Osborn, H. F. 1915 A, 298.
Riggs, E. S. 1904 B, 229.
Seitz, A. L. L. 1907 A, 312.
Simpson, G. G. 1926 H, 205.
Versluys, J. 1910 C, 436.
Williston, S. W. 1905 B, 345.
1925 B, 293.
Zittel and Broili 1911 A, 285 (Haplacanthosaurus).
1923 A, 351 (Haplacanthosaurus).

Haplocanthosaurus priscus Hatcher.

Hatcher, J. B. 1903 F, 1 (Haplocanthus, preoccupied).
Abel, O. 1922 C, 411.
Gilmore, C. W. 1914 A, 25.
1925 A, 367.
Hatcher, J. B. 1903 A, 6, figs. 1, 3, 14, pls. i, iii, iv, v.
Huene, F. 1922 A, 88.
1927 B, 457.
Mook, C. C. 1916 A, 140.
Osborn, H. F. 1903 G, 702 (Haplocanthus).
Osborn and Mook 1919 A, 388.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Haplocanthosaurus utterbackii Hatcher.

Hatcher, J. B. 1903 A, 27, pl. ii; text-figs. 1, 15-20.
Abel, O. 1922 C, 411.
Gilmore, C. W. 1914 A, 25.
Holland, W. J. 1924 A, 124, fig. 2 (Haplacanthasaurus).
Huene, F. 1922 A, 88.
1927 B, 457.
Mook, C. C. 1916 A, 140.
Osborn and Mook 1919 A, 388.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

CAULODON Cope. Type *C. diversidens* Cope.

Hay, O. P. 1902 A, 484.
Cope, E. D. 1880 U, 146.
Huene, F. 1909 B, 15.
Nopcsa, F. 1901 A, 258.
Osborn, H. F. 1924 I, 4 (Syn. of Camarasaurus).
Osborn and Mook 1921 A, 269, 271.
Williston, S. W. 1925 B, 293.

Caulodon diversidens Cope.

Hay, O. P. 1902 A, 484.
Mook, C. C. 1916 A, 135.
Osborn and Mook 1921 A, 270, pl. lx.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Caulodon leptoganus Cope.

Hay, O. P. 1902 A, 484.
Mook, C. C. 1916 A, 136.
Osborn and Mook 1921 A, 271, pl. lxi.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

SYMPHYROPHUS Cope. Type *S. musculosus* Cope.

Hay, O. P. 1902 A, 484.
Abel, O. 1910 D, 5 (Symphyrosaurus).
Huene, F. 1908 B, 348 (Symphyrosaurus).
Nopcsa, F. 1901 A, 261.
Osborn and Mook 1921 A, 280, 281.
Williston, S. W. 1925 B, 293.

Symphyrophus musculosus Cope.

Hay, O. P. 1902 A, 484.
Mook, C. C. 1916 A, 136.
Nopcsa, F. 1901 A, 261.
Osborn and Mook 1919 A, 390.
1921 A, 280, text-figs. 22, 23.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

ELOSAURUS Peterson and Gilmore. Type *E. parvus* Peterson and Gilmore.

Peterson and Gilmore 1902 A, 490.
Huene, F. 1909 B, 15.
1922 A, 86.
1927 B, 459.
Nopcsa, F. 1923 H, 98.
1928 A, 184.
Williston, S. W. 1925 B, 293.
Zittel and Broili 1923 A, 352 (Synonym of Pelorosaurus).

Elosaurus parvus Peterson and Gilmore.

Peterson and Gilmore 1902 A, 490, pl. xxv; text-figs. 1-10.
Hatcher, J. B. 1903 B, 12.
Huene, F. 1922 A, 87.
1927 B, 457.
Mook, C. C. 1916 A, 139.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

ASTRODON Johnston. Type *A. johnstoni* Leidy.

Unless otherwise indicated, the authors, as cited, use for this genus the name *Pleurocœlus.*

Hay, O. P. 1902 A, 483 (Pleurocœlus); 484 (Astrodon).
Gilmore, C. W. 1919 E, 395.
1921 E, 588 (Astrodon).
1922 A, 7 (Astrodon, Pleurocœlus).
Hatcher, J. B. 1903 B, 9, 11 (Astrodon).
Huene, F. 1908 B, 347.
1908 D, 297.
1909 B, 13 (Pleurocœlus); 15 (Astrodon).
1926 B, 79.
1927 B, 459.
1927 C, 123.
Lucas, F. A. 1904 B, 436 (Astrodon, Pleurocœlus).
Lull, R. S. 1910 A, 16.
1911 B, 174 (Pleurocœlus); 175 (Astrodon).
1915 C, 331.
1917 B, 517.
1924 A, 235.
Nopcsa, F. 1901 A, 257 (Astrodon); 260 (Pleurocœlus).
1923 H, 195.
1928 A, 184.
Simpson, G. G. 1926 H, 205, 206.
Whitnal, H. O. 1925 A, 15.
Williston, S. W. 1905 B, 345.
1925 B, 293 (Pleurocœlus, Astrodon).

Astrodon altus (Marsh).

Hay, O. P. 1902 A, 483 (Pleurocœlus).
Clark, Bibbins, Berry 1911 A, 89 (Pleurocœlus).
Gilmore, C. W. 1921 E, 583.
Hatcher, J. B. 1903 B, 12 (Pleurocœlus).
Lull, R. S. 1911 B, 175 (Pleurocœlus).
1911 C, 200, pl. xviii, fig. 3; pl. xix, figs. 1-4 (Pleurocœlus).
Merrill, G. P. 1907 A, 76 (Pleurocœlus).
Mook, C. C. 1916 A, 138 (Pleurocœlus).
Schuchert, C. 1910 A, 586 (Pleurocœlus).
Lower Cretaceous (Arundel); Maryland.

Astrodon johnstoni Leidy.

Hay, O. P. 1902 A, 484.
Clark, Bibbins, Berry 1911 A, 89.
Gilmore, C. W. 1921 E, 583, 587.
Hatcher, J. B. 1903 B, 9, figs. 1-6.
Lull, R. S. 1911 C, 202, pl. xix, fig. 5.
Mook, C. C. 1916 A, 134.
Osborn, H. F. 1903 G, 701.
Lower Cretaceous (Arundel); Maryland.

Astrodon? montanus (Marsh).

Hay, O. P. 1902 A, 483 (Pleurocœlus).
Hatcher, J. B. 1903 B, 12 (Pleurocœlus).
Huene, F. 1927 B, 451 (Pleurocœlus).
Lull, R. S. 1915 C, 331 ("Morrison species").
Mook, C. C. 1916 A, 139 (Pleurocœlus).
Upper Jurassic or Lower Cretaceous (Morrison); Colorado or Wyoming.

Astrodon nanus (Marsh).

Hay, O. P. 1902 A, 483 (Pleurocœlus).
Clark, Bibbins, Berry 1911 A, 89 (Pleurocœlus).
Gilmore, C. W. 1921 E, 583.
Hatcher, J. B. 1903 B, 9 (Syn. of A. johnstoni).
Huene, F. 1927 B, 457 (Pleurocœlus).
Lull, R. S. 1911 B, 174 (Pleurocœlus).
1911 C, 188, pl. xi; pl. xiv, figs. 5-8; pl. xv, figs. 2-5; pls. xvi, xvii; pl. xviii, figs. 1, 2 (Pleurocœlus).
Merrill, G. P. 1907 A, 76 (Pleurocœlus).
Miller, B. L. 1911 A, pl. iv (Pleurocœlus).
Mook, C. C. 1916 A, 138 (Pleurocœlus).
Osborn, H. F. 1903 G, 701 (Pleurocœlus).
Pompeckj, J. F. 1920 A, 126 (Pleurocœlus).
Schuchert, C. 1910 A, 586 (Pleurocœlus).
Zittel and Broili 1923 A, 351 (Pleurocelus).
Lower Cretaceous (Arundel); Maryland.

ATLANTOSAURIDÆ Marsh.

Hay, O. P. 1902 A, 484.
Abel, O. 1919 A, 611.
Arldt, T. 1907 D, 640.
1909 A, 262 ("atlantosauriden").
1912 A, 668.
Dollo, L. 1889 H, 677.
Fraas, E. 1908 A, 141 ("atlantosauriden").
Hoernes, R. 1886 A, 612.
Hoffmann, C. K. 1890 B, 1311.
Huene, F. 1908 B, 348.
1908 D, 297 ("atlantosauriden").
1909 B, 14.
1914 G, 38, pl. vii.
Huene, F. 1927 B, 467 ("apatosauriden").
1927 C, 125 (Apatosauridæ).
Jaekel, O. 1914 A, 197 ("atlantosauriden").
Koken, E. 1900 A, 463.
Lull, R. S. 1924 A, 234.
Thevenin, A. 1907 B, 132 ("atlantosauridés").
Tornier, G. 1913 B, 370, 375.
Williston, S. W. 1925 B, 293.
Zittel and Broili 1911 A, 285.
1923 A, 351, 366.
Zittel, Eastman, etc. 1902 A, 233 (Camarasauridæ).

ATLANTOSAURUS Marsh. Type *Titanosaurus montanus* Marsh.

Hay, O. P. 1902 A, 484.
Abel, O. 1909 F, 459.
Bigot, A. 1897 A, 462.
Brauns, D. 1890 A, 187.
Gaudry, A. 1896 A, 61.
Giebel, C. G. 1878 A, 126 (Titanosaurus).
Heilprin, A. 1887 A, 161.
Huene, F. 1908 B, 348.
1908 D, 294.
1909 B, 14.
1919 A, 182.
Hutchinson, H. N. 1910 A, 148, pl. xviii.
1917 A, 363.
Johnson, A. 1883 A, 408.
Koken, E. 1893 B, 396.
Lankester, E. R. 1905 A, 11, fig. 6.
Lee, W. T. 1903 A, 292.
Riggs, E. S. 1901 A, 549.
1901 C, 281.
1903 A, 304.
Schaffer, F. X. 1912 A, 198.
Schuchert, C. 1910 A, 582.
Stremme, H. 1909 B, 796.
Van den Broeck, E. 1900 A, 61, 82.
Williston, S. W. 1925 B, 293.

Atlantosaurus immanis Marsh.

Hay, O. P. 1902 A, 484.
Anonymous 1878 A, 76.
Cannon, G. L. 1894 A, 244.
1906 A, 116.
1906 B, 196.
Gadow, H. 1901 B, 419.
Gaudry, A. 1893 A, 21.
Lull, R. S. 1926 A, 458.
Mook, C. C. 1916 A, 136.
Peck, F. B. 1904 A, 30.
Van den Broeck, E. 1900 A, 82.
Williston, S. W. 1915 D, 126 (Titanosaurus).
Woodward, H. 1904 B, 146.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado, Wyoming?.

Atlantosaurus montanus Marsh.

Hay, O. P. 1902 A, 484.
Cannon, G. L. 1894 A, 244.
Gilmore, C. W. 1907 A, 154.
1925 A, 355.
Holland, W. J. 1923 A, 479.
Huene, F. 1906 C, 336 (Apatosaurus).
Mook, C. C. 1916 A, 135.
Osborn, H. F. 1919 A, 69 ("Atlantosaurus").

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

APATOSAURUS Marsh. Type *A. ajax* Marsh.

Hay, O. P. 1902 A, 485.
Abel, O. 1909 F, 461.
Brown, B. 1908 B, 196.
Fraas, E. 1908 A, 141.
Gilmore, C. W. 1907 A, 158.
1925 A, 366, 374.
Gregory, W. K. 1916 D, 106 (Brontosaurus).
1920 C, 16.
Hay, O. P. 1910 C, 8.
Hoffmann, C. K. 1890 B, 1311.
Holland, W. J. 1916 A, 143.
1916 D, 153 (Brontosaurus a syn.).
1923 A, 478, 479.
1924 A, 120, 124.
Huene, F. 1908 B, 348.
1909 B, 14.
1927 C, 125.
Huene and Lull 1908 A, 142.
Hutchinson, H. N. 1917 A, 363 (Brontosaurus).
Janensch, W. 1914 B, 91, 96 (Syn. of Brontosaurus).
Janensch, W. 1922 A, 478.
Lull, R. S. 1910 A, 2, 7.
1924 A, 234.
Moodie, R. L. 1907 A, 90.
1917 B, 388, fig. 14.
1918 C, 272, figs. 12-14.
1918 D, 509, fig. 45.
1920 E, 460, fig. 1.
1923 B, 123, 162, pls. xxiii, xxviii, xxix.
1926 A, 67, 68 (This genus?).
Mook, C. C. 1917 A, 355.
Nopcsa, F. 1901 A, 257.
1905 C, 292.
1906 A, 73.
1911 A, 111.
1915 B, 15.
1918 B, 239.
1923 H, 97, 98.
Osborn, H. F. 1917 B, 213, 219-221, figs.
Osborn and Mook 1919 A, 396.
Riggs, E. S. 1903 C, 165, 169, pls. xlv-li, liii.

Schuchert, C. 1910 A, 582.
Stromer, E. 1915 B, 18.
Tornier, G. 1913 B, 370 (Syn. of Brontosaurus).
Williston, S. W. 1925 A, 103, 149, figs. 80, 122.
1925 B, 293.
Zittel and Broili 1911 A, 285.
1923 A, 350.

Apatosaurus ajax Marsh.

Hay, O. P. 1902 A, 485.
Cannon, G. L. 1894 A, 245.
1906 A, 116.
1906 B, 196.
Holland, W. J. 1923 A, 479.
Huene, F. 1922 A, 87 ("Apatosaurus").
Mook, C. C. 1916 A, 135.
1917 A, 357.
Riggs, E. S. 1903 C, 170.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Apatosaurus laticollis Marsh.

Hay, O. P. 1902 A, 485.
Cannon, G. L. 1894 A, 245.
Mook, C. C. 1916 A, 137.
Riggs, E. S. 1901 A, 550.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Apatosaurus louisæ Holland.

Holland, W. J. 1916 A, 144.
Eastman, C. R. 1917 B, 656.
Eastman, Gregory and Matthew 1917 A, 119.
Gilmore, C. W. 1925 A, 367.
Holland, W. J. 1924 A, 120, fig. 2.
1924 B, 383, 386.
Huene, F. 1927 B, 465.
Moodie, R. L. 1923 B, 192, pl. xxix.
Mook, C. C. 1916 A, 140.

Upper Jurassic or Lower Cretaceous (Morrison); Utah.

Apatosaurus minimus Mook.

Mook, C. C. 1917 A, 368, figs. 1, 2.
Osborn, H. F. 1904 C, 186, fig. 4 (Brontosaurus sp.).

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

BRONTOSAURUS Marsh. Type *B. excelsus* Marsh.

Hay, O. P. 1902 A, 485.
Abel, O. 1909 C, (120).
1909 F, 458.
1910 D.
1912 F, 248, 663, fig. 181.
1914 B, 87.
1916 A, 470, figs. 2, 3.
1919 A, 607.
1920 A, 387, fig. 603.
1922 C, 358, 415, fig. 308.
1925 A, 231.
Anonymous 1880 A, 113.
Arthaber, G. 1924 A, 450.
Beard, J. C. 1901 A, 184, fig. 1.
Beasley, W. L. 1907 D, 446, 1 fig.
Bigot, A. 1897 A, 462.
Boule, M. 1891 A, 12.
Burroughs, J. 1919 A, 491.
Case, E. C. 1898 C, 637.
Cockerell, T. D. A. 1916 B, 189, fig.
Creevey, C. A. 1899 A, 41 ("brontosaur." This genus?).
Dames, W. 1883 C, 273.
Darton, N. H. 1908 A, 446.
1915 A, 67, pl. xi.
Depéret, C. 1907 B.
Dollo, L. 1889 H, 677.
1905 B, 251.
Eastman, C. R. 1914 B, 689.
Eimer, G. H. T. 1901 A, 250.
Fraas, E. 1902 A, 79, figs.
1902 C, lxvii.
1908 A, 141.
Frech, F. 1906 A, 495 ("brontosaurier").
Gaudry, A. 1893 A, 21.
1896 A, 49, 61.
1898 A, 127.
Gilmore, C. W. 1915 C, 52.
1925 B, 409.
Gratacap, L. P. 1902 A, 5, fig. 3.
Gregory, W. K. 1901 A, 145.
1905 A, 572.
Gregory, W. K. 1927 C, 171.
Gregory and Camp 1918 A, 530.
Hatcher, J. B. 1901 E, 1015.
1902 B, 356, pls. xix, xx.
1903 A, 14, pl. iv, fig. 1.
1903 B, 13.
1903 E, 72.
Hay, O. P. 1908 C, 676.
1910 C, 1.
1911 B, 404.
Heilprin, A. 1887 A, 161.
Hoernes, R. 1886 A, 613.
Hoffmann, C. K. 1890 B, 1311.
Holland, W. J. 1910 A, 265, fig. 4.
1912 A, 205.
1915 B, 274.
1915 C, 153.
Huene, F. 1904 A, 322.
1908 B, 289.
1908 E, 380.
1927 A, 123 (Syn. of Camarasaurus).
Hutchinson, H. N. 1910 A, 146, pl. xix.
Janensch, W. 1922 A, 477 (Syn. of Apatosaurus).
Joleaud, L. 1920 A, 493.
Kingsley, J. S. 1925 A, 268, fig. 291.
König, F. 1910 A, 150.
Lafitte, J. P. 1905 A, 408.
Lankester, E. R. 1905 A, 204, fig. 147.
Lebedinsky, N. G. 1913 A, 767.
Lönnberg, E. 1910 A, 17.
Loomis, F. B. 1901 A, 195.
Lucas, F. A. 1901 J, 96, 109, 119, figs. 19, 20.
1902 B, 152, fig.
1902 C, 642.
Lull, R. S. 1910 A, 7.
1911 C, 191.
1914 D, 355.
1915 F, 833, pl. xxxii, fig. 1.
1917 A, 473.
1917 B, 220, 335, 515.
1918 C, 130.

Lull, R. S. 1919 C, 19, 41.
  1924 A, 234, 269, fig. 26.
Lydekker, R. 1887 E, 158.
  1906 B, 391.
  1907 C, 457.
  1912 C, 51, 128, 141, 156.
Matthew, W. D. 1905 E, 63, figs. 1, 3, 4.
  1910 D, 547.
  1914 J, 443.
  1915 C, 62, figs. 5, 8, 19-22.
  1919 A, 492.
Moodie, R. L. 1915 I, 172, fig. 12.
Mook, C. C. 1914 A, 225.
Nopcsa, F. 1900 A, 560.
  1901 A, 258.
Osborn, H. F. 1901 G, 159.
  1903 G, 701.
  1904 C, 181, 186, 189, 190, figs. 4*a-c*, 6.
  1904 I, 272.
  1904 Q, 682.
  1905 G, 375.
  1906 D, 282.
  1917 B, 219, 220.
  1926 A, 188.
Osborn and Granger 1901 A, 199, figs. 1, 3, 6.
Pütter, A. 1923 A, 221.
Reynolds, S. H. 1897 A, 207, 288.
Riggs, E. S. 1901 A, 549.
  1903 A, 305.
  1903 B, 393.
  1903 C, 165, 170.
Romer, A. S. 1923 C, 613.
Sauvage, H. E. 1902 B, 9 ("brontosaure").
Schuchert, C. 1910 A, 582.
  1915 A, 882.
  1918 B, 255.
Schuchert and Levene 1927 A, 321, fig.
Seitz, A. L. L. 1907 A, 300.
Simpson, G. G. 1926 H, 210.
Stanton, T. W. 1905 A, 662.
Sternberg, C. H. 1917 A, 21, 56.
Stose, G. W. 1912 A, 3.
Stremme, H. 1909 B, 796.
  1910 A, 547.
Thevenin, A. 1907 B, 129.
Tornier, G. 1909 B, 512.
  1909 C, 537.
  1910 A, 543.
  1913 B, 370.
Trouessart, E. L. 1903 A, 306.
Van den Broeck, E. 1900 A, 82.
Versluys, J. 1910 B, 220.
  1910 C, 425, fig. E.
  1912 B, 580.
Whitnal, H. O. 1925 A, 14, pl. ii.
Williston, S. W. 1925 B, 293.
Woodward, A. S. 1905 A, 242.
Woodward, H. 1904 B, 146.
Zittel and Broili 1911 A, 285 (Syn. of Apatosaurus).
  1923 A, 347 (Syn. of Apatosaurus).
Zittel, Eastman, etc. 1902 A, 235.

Brontosaurus amplus Marsh.

Hay, O. P. 1902 A, 485.
Mook, C. C. 1916 A, 138.
Osborn, H. F. 1904 C, 189.
Riggs, E. S. 1903 C, 170 (Apatosaurus).
  Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Brontosaurus excelsus Marsh.

Hay, O. P. 1902 A, 485.
Abel, O. 1910 D, 22.
  1916 A, 494, fig. 7.
  1919 A, 612, figs. 480, 481.
  1922 C, 410, 414, figs. 342, 344.
  1925 A, 232, figs. 168, 169, 171, 172-175.
Anonymous 1880 A, 113.
  1905 A, 42.
  1906 E, 411 ("Brontosaurus").
Bigot, A. 1897 A, 463, figs. 1, 2.
Boule, M. 1891 A, 12, fig. 1.
  1902 B, 906, fig. 7.
Gadow, H. 1901 B, 418, fig. 95.
Geinitz and Deichmüller 1882 B, 14.
Gregory, W. K. 1905 A, 572.
Hatcher, J. B. 1901 D, 52, fig. 22.
Hoffmann, C. K. 1890 B, 1311.
Holland, W. J. 1910 A, 260, fig. 1.
  1916 A, 144 (Apatosaurus).
Huene, F. 1906 B, 112, fig. 8.
  1927 C, 124 (Camarasaurus).
Knight, W. C. 1900 A, 454 ("dinosaur").
Koken, E. 1893 B, 395.
Lull, R. S. 1917 B, 515, pl. xi; text-fig. 156.
Merrill, G. P. 1907 A, 64.
Moodie, R. L. 1917 B, 389, fig. 17 ("Brontosaurus").
Mook, C. C. 1916 A, 138.
  1917 B, 357.
Osborn, H. F. 1903 G, 701.
  1904 C, 189.
  1904 F, 49.
  1904 Q, 685.
  1905 L, 562 ("Brontosaurus").
  1906 D, 282, figs. 1, 3.
  1915 E, 136.
Peck, F. B. 1904 A, 30, 38.
Reed, W. H. 1909 A, 198.
Riggs, E. S. 1901 A, 549.
  1903 B, 393.
  1903 C, 170, pl. lii (Apatosaurus, Brontosaurus).
Schuchert, C. 1918 B, 253.
Sternberg, C. H. 1909 C, 78, fig. 16 ("Brontosaurus").
Stromer, E. 1912 A, 87, fig. 88.
Woodward, A. S. 1922 C, 18, fig. 12.
Wortman, J. L. 1900 A, 164 ("Brontosaurus").
Zittel and Broili 1911 A, 286, figs. 431, 434 (Apatosaurus).
  1923 A, 350, fig. 459 (Apatosaurus).
Zittel, Eastman, etc. 1902 A, 234, figs. 335, 336.
  Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Brontosaurus sp. indet.

Mook, C. C. 1916 A, 94, 96. Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

BRACHIOSAURIDÆ Riggs.

Riggs, E. S. 1904 B, 229.
Gilmore, C. W. 1907 A, 163.
Holland, W. J. 1912 A, 207.
Huene, F. 1927 B, 460.
1927 C, 122.
Lull, R. S. 1915 C, 333 (Brachiosauridæ or Barosauridæ).
Moodie, R. L. 1916 A, 51.
Nopcsa, F. 1923 D, 107.
1923 H, 99, 195.
1928 A, 184.
Williston, S. W. 1905 B, 345.

BRACHIOSAURUS Riggs. Type *B. altithorax* Riggs.

Riggs, E. S. 1903 A, 299.
Abel, O. 1916 A, 495.
1919 A, 606.
1921 A, 262, 301, 302.
1922 C, 434, figs. 353, 355.
1925 A, 266.
Allis, E. P. 1898 A, 444.
Eastman, C. R. 1915 C, 659.
Fraas, E. 1908 A, 141.
Gilmore, C. W. 1922 A, 4.
Hay, O. P. 1910 C, 8.
Huene, F. 1908 B, 347.
1908 D, 295.
1909 B, 14.
1919 A, 182.
1927 B, 459.
1927 C, 122, 123.
Janensch, W. 1914 B, 82, 86, figs. 1-6.
1922 A, 470, figs. 5-7.
Koken, E. 1893 B, 240.
Lucas, F. A. 1911 A, 18.
Lull, R. S. 1915 C, 329.
1915 F, 835.
1917 B, 220, 516, fig. 158.
1919 C, 19, 41.
1924 A, 233, fig. 25.
Matthew, W. D. 1914 J, 443.
1915 C, 73, 74, fig. 24.
1915 J, 153.
1921 B, 186.
Moodie, R. L. 1907 A, 90.
Mook, C. C. 1914 A, 227.
Mook, C. C. 1916 A, 154.
Nopcsa, F. 1906 A, 73.
1918 A, 186.
1923 H, 97-99, 195.
1928 A, 184.
Osborn, H. F. 1904 Q, 689.
1915 E, 145.
1917 B, 217, 219, fig.
1924 I, 6.
Riggs, E. S. 1904 B, 229, 230.
Simpson, G. G. 1926 H, 205, 211.
Whitnal, H. O. 1925 A, 15.
Williston, S. W. 1905 B, 345.
1925 B, 293.
Zittel and Broili 1911 A, 285.
1923 A, 349.

Brachiosaurus altithorax Riggs.

Riggs, E. S. 1903 A, 299, figs. 1-7.
Abel, O. 1920 A, 393, fig. 610.
Branca, W. 1914 A, 74.
Huene, F. 1922 A, 87, 88.
1927 B, 457.
Janensch, W. 1914 B, 93, 97.
Lull, R. S. 1915 C, 329.
Mook, C. C. 1916 A, 140.
Osborn, H. F. 1905 L, 566, fig. 4.
Riggs, E. S. 1904 B, 240, pls. lxxi-lxxv; text-fig. 1.
Wieland, G. R. 1920 A, 529.
Upper Jurassic or Lower Cretaceous (McElmo); Colorado.

DIPLODOCIDÆ Marsh.

Hay, O. P. 1902 A, 486.
Abel, O. 1919 A, 610.
Arldt, T. 1907 D, 651.
1909 A, 262 ("diplodociden").
1912 A, 668.
Dollo, L. 1889 H, 677.
Günther, A. 1886 A, 443.
Holland, W. J. 1915 B, 274.
Huene, F. 1908 B, 347.
1909 B, 14.
1914 G, 38.
1922 A, 86 ("diplodociden").
Huene, F. 1927 B, 463, 466.
1927 C, 124.
Jaekel, O. 1914 A, 197 ("diplodociden").
Koken, E. 1900 A, 463.
Matthew, W. D. 1915 C, 32.
Nopcsa, F. 1923 H, 126, 195.
1928 A, 184.
Tornier, G. 1913 B, 370, 375.
Williston, S. W. 1925 B, 293.
Zittel and Broili 1911 A, 288.
1923 A, 352, 366.
Zittel, Eastman, etc. 1902 A, 236.

DIPLODOCUS Marsh. Type *D. longus* Marsh.

Hay, O. P. 1902 A, 486.
Abel, O. 1909 C, (118).
1909 F, 459, 477.
1910 A, (146).
1910 D.
1911 A, 175.
1912 F, 248, 591, 669, fig. 216.
1919 A, 606.
1920 A, 390.
Abel, O. P. 1921 A, 302.
1925 A, 251.
Andreae, A. 1903 A, 151.
Anonymous 1905 D.
1909 A, 334.
1922 A, 184.
Arthaber, G. 1924 A, 450.
Beasley, W. L. 1907 B, 491, 7 figs.
Beddard, F. E. 1898 A, 156.

Boas, J. E. V. 1914 B, 572, fig. 26.
Boule, M. 1902 B, 908, fig. 14.
Branca, W. 1914 A, 74.
Broili and Fischer 1917 A, 412.
Case, E. C. 1898 C, 638.
Cockerell, T. D. A. 1916 B, 183, 189, fig.
Darton, N. H. 1908 A, 446.
Deniker, J. 1909 A, 221, figs. 1, 2.
Dollo, L. 1889 H, 677.
  1905 B, 251.
Drevermann, F. 1907 A, 152.
  1910 A, 399.
  1911 A, 272.
Eastman, C. R. 1914 B, 689.
Fraas, E. 1908 A, 141.
Gilmore, C. W. 1907 A, 158.
  1909 A, 210.
  1915 C, 52.
  1922 A, 2, 4.
  1924 G, 20.
  1925 A, 353, 363.
  1926 E, 35.
  1927 B, 97, fig. 2.
Gratacap, L. P. 1902 A, 5.
Gregory, W. K. 1916 D, 106.
Hatcher, J. B. 1901 D, 55.
  1903 A, 14.
  1903 E, 72, figs. 1, 2.
Hay, O. P. 1908 B, 517.
  1908 C, 673.
  1908 E, 366.
  1909 E, 829, text-fig. 5.
  1910 C, 1, pl. i; text-figs. 2, 4-7.
  1911 B, 399.
Heilmann, G. 1913 B, 7.
  1916 A, 86.
Hennig, E. 1915 A, 576.
  1916 A, 177.
  1924 A, 208.
Hoernes, R. 1886 A, 613.
Holland, W. J. 1905 D, 935.
  1905 E, 683, pl.
  1906 A, 227, pls. xxvi-xxviii; text-figs. 2-22, 25, 26, 29, 30.
  1908 E, 645.
  1910 A, 261, figs. 2-4, 9-12, 15-17, 19.
  1912 A, 205.
  1915 B, 274.
  1915 C, 153.
  1916 D, 153.
  1918 A, 130.
  1923 A, 478, 479.
  1924 A, 120.
  1924 B, 379-403, pls. xl-xliii, figs. 1-11.
Huene, F. 1904 A, 323, figs. 9, 14.
  1905 B, 346.
  1908 B, 341, 350, text-fig. 316.
  1908 D, 294, 297.
  1909 B, 14.
  1914 C, 579, pl. ix, fig. 3.
  1914 G, pl. vii.
  1919 A, 182.
  1927 B, 464, 467.
  1927 C, 125.
Hutchinson, H. N. 1910 A, 153, fig. 52.
  1916 A, 539.
  1917 A, 356, text-figs. 1-8.
Jaekel, O. 1908 B, 467.
Jaekel, O. 1910 A, 270.
Janensch, W. 1914 B, 96.
  1922 A, 477.
Joleaud, L. 1920 A, 493.
Knight, W. C. 1900 A, 454 ("dinosaur").
Knipe, H. R. 1912 A, 90, fig.
König, F. 1910 A, (146).
Lafitte, J. P. 1905 A, 407, fig. 1.
  1909 A, 222.
Lankester, E. R. 1905 A, 204.
Loomis, F. B. 1901 A, 195.
Lucas, F. A. 1901 J, 99, 109.
  1902 B, 158, fig.
Lull, R. S. 1910 A, 2.
  1914 D, 355.
  1915 C, 333.
  1915 F, 835, pl. xxxii, fig. 2.
  1917 B, 335, 514.
  1918 C, 130.
  1924 A, 233, 236, 269, fig. 27.
Lydekker, R. 1905 A, 304.
  1906 B, 391.
  1907 C, 457.
  1909 C, 463.
  1910 D, 459.
  1910 F, 667.
  1911 A, 678.
  1912 C, 6, 51, 128, 141, 156.
Martin, E. A. 1905 A, 159.
Matthew, W. D. 1910 D, 547.
  1914 J, 443.
  1915 C, 72, figs. 20, 23.
Moodie, R. L. 1915 I, 156.
  1923 B, 162, fig. 15.
Mook, C. C. 1914 A, 225.
  1917 B, 815.
Nopcsa, F. 1900 A, 560.
  1901 A, 261.
  1902 B, 102, 110.
  1905 D, 289, figs. 46, 47.
  1906 A, figs. 1, 13, 16.
  1907 A, 231.
  1911 A, 148.
  1915 B, 15.
  1917 B, 341, fig. 5.
  1918 A, 195.
  1918 B, 239.
  1923 D, 107.
  1923 H, 12, 13, 97, 98, 195, pl. vi, fig. 15.
  1925 A, 19.
  1926 A, 642, text-fig. 4.
  1928 A, 184.
Osborn, H. F. 1903 I, 978.
  1904 C, 181, 186, 189, 190.
  1904 I, 35.
  1905 G, 375.
  1906 D, 283, fig. 4.
  1915 E, 142.
  1917 B, 219, 221, fig.
Osborn and Granger 1901 A, 199, figs. 1-4, 6.
Peck, F. B. 1904 A, 30.
Perrier, E. 1920 A, 313.
Pompeckj, J. F. 1920 A, 110.
  1921 A, 2.
Pütter, A. 1923 A, 221.
Pycraft, W. P. 1909 A, 204, fig.
Riggs, E. S. 1903 B, 394.
  1903 C, 181.

Riggs, E. S. 1904 B, 230.
Romer, A. S. 1923 C, 611.
Sauvage, H. E. 1902 B, 9, 12.
Schuchert, C. 1910 A, 582.
1915 A, 882.
Seeley, H. G. 1888 G, 170.
1892 C, 189.
1904 A, 343.
Seitz, A. L. L. 1907 A, 303.
Simpson, G. G. 1926 H, 210.
Sternfield, R. 1909 A, 374, figs. 7-9.
Stose, G. W. 1912 A, 3.
Stremme, H. 1909 B, 796, figs. 1, 2.
1910 A, 545, fig. 1.
Thevenin, A. 1907 B, 124, figs. 3, 7, 8.
Tornier, G. 1909 A, 193.
1909 B, 505.
1909 C, 536.
1910 A, 536, figs. 1, 4, 5, 11, 12.
1910 B, 402.
1913 B, 355, 366, fig. 36.
Versluys, J. 1910 B, 214, figs. R-T.
1910 C, 425, figs. A, B.
Whitnal, H. O. 1925 A, 15.
Wieland, G. R. 1920 A, 529.
Williston, S. W. 1911 B, 97.
1918 A, 79, fig. 3.
1925 A, 87, 94, 103, 104, figs. 70, 75, 80, 81.
1925 B, 293.
Woodward, A. S. 1905 A, 238.
Woodward, H. 1904 B, 146.
Zittel and Broili 1911 A, 288.
1923 A, 347, 353, fig. 463.
Zittel, Eastman, etc. 1902 A, 236.

Diplodocus carnegii Hatcher.

Hatcher, J. B. 1901 D, 20, pls. iii-ix; pl. x, figs. 1, 2; pls. xi-xiii; text-figs. 6-9, 11-21, 23.
Abel, O. 1909 F, 461, fig. 3.
1910 D, 9, figs. 1, 2 (D. carnegiei).
1912 F, 247, figs. 180, 182, 183 (D. carnegiei).
1916 A, 494, fig. 7 (D. carnegiei).
1919 A, 609, figs. 477-479 (D. carnegiei).
1920 A, 392, fig. 609 (D. carnegiei).
1922 C, 411, 417, figs. 346, 347, 349, 351, 352 (D. carnegiei).
1925 A, 49, 253, figs. 34, 35, 187, 188, 190, 192, 194, 196-198, 200 (D. carnegiei).
Anonymous 1905 C, 82, fig. 1.
1905 D, pls. xvii, xviii.
1905 E, 576, pl. xxv (D. carnegiei).
1906 E, 411 ("Diplodicus").
1909 A, 334 ("Diplodicus").
1910 A, 198.
Branca, W. 1914 A, 74 (D. carnegiei).
Brauer, A. 1908 A, 92, fig. 7 (D. carnegiei).
Drevermann, F. 1910 A, 399.
1911 A, 278, pls.
Gilmore, C. W. 1925 A, 355, 384 (D. carnegiei).
Hatcher, J. B. 1903 A, ii, pl. iv.
1903 C, 570.
1903 E, 73, pl. vi.
Hay, O. P. 1908 B, 517 ("Diplodocus").
Holland, W. J. 1904 A, 601.
1905 B, 443.
1905 D, 935.
1906 A, 228, pls. xxix, xxx; text-fig. 1.
1908 B, 160.
Holland, W. J. 1910 A, 259.
1916 B, 2.
1924 A, 124, fig. 2 (D. carnegiei).
1924 B, 383 (D. carnegiei).
Huene, F. 1914 C, pl. ix, fig. 1.
1922 A, 87 (D. carnegiei).
1927 B, pl. xv.
Hutchinson, H. N. 1910 A, 155, pls. xxi, xxii.
1916 A, 539 (D. carnegiei).
1917 A, 356, pls. xxii, xxiii.
Lull, R. S. 1917 B, 184, 515, pl. iii; text-fig. 157.
1919 C, pl. vii; text-figs. 7-10 (D. carnegiei).
1926 A, 460 ("Diplodocus").
Lydekker, R. 1905 E, 134.
Martin, E. A. 1905 A, 159.
Mook, C. C. 1916 A, 139.
Nopcsa, F. 1902 B, 113.
Osborn, H. F. 1905 L, 562, fig. 2 (D. carnegiei).
Pycraft, W. P. 1905 A, 128, figs. 1, 2.
Schuchert and Levene 1927 A, 321, fig.
Shufeldt, R. W. 1906 B, 41, fig. 6.
Sternberg, C. H. 1909 E, 125 ("D. carnegie").
1917 A, 20, fig. 6.
Sternfield, R. 1909 A, 374, figs. 3-6, 10, 11.
Thevenin, A. 1907 B, 126.
Tornier, G. 1909 A, 193.
1909 B, 506.
1909 C, 284.
1913 B, 366, fig. 44.
Versluys, J. 1910 C, 444, fig. K.
Woodward, A. S. 1922 C, 16, pl. iii; text-fig. 11.
Wortman, J. L. 1900 A, 164 ("Diplodocus?," "Barosaurus?").
Zittel, Eastman, etc. 1902 A, 236, fig. 339.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Diplodocus hayi Holland.

Holland, W. J. 1924 B, 399.
1906 A, 231-242, pl. xxvii; pl. xxviii, fig. 1; text-figs. 4-10 ("Diplodocus").
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Diplodocus lacustris Marsh.

Hay, O. P. 1902 A, 486.
Cannon, G. L. 1894 A, 245.
Hatcher, J. B. 1901 D, 56.
1902 B, 356.
Mook, C. C. 1916 A, 138.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Diplodocus longus Marsh.

Hay, O. P. 1902 A, 486.
Abel, O. 1910 D.
1916 A, 494.
1919 A, 608, fig. 476.
1922 C, 419, fig. 348.
1925 A, 252, figs. 193, 199.
Boas, J. E. V. 1914 C, 277, fig. 63.
Drevermann, F. 1910 A, 400.
1911 A, 272, pls. and fig.
Gadow, H. 1901 B, 419, fig. 97.

Gilmore, C. W. 1907 A, 165.
1914 A, 25.
1919 A, 107, text-fig. 5.
1923 C, xii ("Diplodocus").
1924 I, 381 ("Diplodocus").
Hatcher, J. B. 1901 D, 5, 55, pls. ii, xii; text-figs. 1-5, 10, 24.
1903 E, 75.
Holland, W. J. 1906 A, 251, 266, 268, 270, pls. xxiii-xxv.
1924 B, 382, 385.
Huene, F. 1914 C, pl. ix, figs. 2, 4, 5.
1919 A, 182, pl. vii.
Lull, R. S. 1919 C, 22, pl. vi, fig. 8; text-fig. 6.
1926 A, 459 ("Diplodocus").
Merrill, G. P. 1907 A, 69, 70.
Moodie, R. L. 1923 B, 182, fig. 15.
Mook, C. C. 1916 A, 137.
Nopcsa, F. 1902 B, 112.
Osborn, H. F. 1904 C. 187, figs. 3*a*, 3*b*, 5.
1904 Q, 682 ("Diplodocus").
1912 J, 20, figs. 12, 16.
1919 A, 69 ("Diplodocus").
Osborn and Mook 1919 A, 388.
Pompeckj, J. F. 1920 A, 110.
Sauvage, H. E. 1902 B, 13.
Sternfield, R. 1909 A, 374.
Thevenin, A. 1907 B, 126.
Tornier, G. 1909 A, 209.
1909 C, 540.
1913 B, 369, figs. 49, 50.
Versluys, J. 1910 C, 442, figs. F-J
Williston, S. W. 1915 D, 129, fig. 44 ("Diplodocus").
Woodward, H. 1904 A, 147.
Zittel and Broili 1911 A, 288, fig. 435.
1923 A, 353, fig. 463.

Diplodocus sp. indet.

Gilmore, C. W. 1924 J, 12-16, figs. 16-21.
Holland, W. J. 1916 C, 3. Upper Jurassic oı Lower Cretaceous (Morrison); Utah.
Lee, W. T. 1902 A, 37. Upper Jurassic or Lower Cretaceous (Morrison); Colorado.
Moodie, R. L. 1927 A, 92, fig. 2.
Mook, C. C. 1916 A, 57, 94, 96. Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

BAROSAURUS Marsh. Type *B. lentus* Marsh.

Hay, O. P. 1902 A, 485.
Abel, O. 1921 A, 301, 302.
Gilmore, C. W. 1925 A, 368.
Holland, W. J. 1915 B, 275.
Huene, F. 1909 B, 15.
1927 C, 123, 124.
Janensch, W. 1922 A, 464.
Joleaud, L. 1920 A, 493.
Lull, R. S. 1915 C, 333.
1917 C, 214.
1919 C, 1-42, pls. ii-vi.
1924 A, 234, 236.
Matthew, W. D. 1914 J, 443.
Nopcsa, F. 1923 H, 195.
1928 A, 184.
Osborn, H. F. 1904 Q, 688.
Wieland, G. R. 1920 A, 528.
1925 B, 558.
Williston, S. W. 1925 B, 294.
Woodward, A. S. 1920 A, 117.
Zittel and Broili 1923 A, 351.

Barosaurus affinis Marsh.

Hay, O. P. 1902 A, 485.
Lull, R. S. 1919 C, 38, pl. vi, figs. 9, 10.
Mook, C. C. 1916 A, 139.
Upper Jurassic or Lower Cretaceous (Morrison); South Dakota.

Barosaurus lentus Marsh.

Hay, O. P. 1902 A, 485.
Joleaud, L. 1920 A, 493.
Lull, R. S. 1919 C, 7, pls. i, vii; text-figs. i-vi.
Mook, C. C. 1916 A, 139.
Wieland, G. R. 1920 A, 528.
Upper Jurassic or Lower Cretaceous (Morrison); South Dakota.

AMPHICŒLIAS Cope. Type *A. altus* Cope.

Hay, O. P. 1902 A, 486.
Cope, E. D. 1878 KK, 476.
1880 U, 146.
Gilmore, C. W. 1925 A, 368.
Huene, F. 1908 B, 348.
1922 A, 87.
1927 C, 123, 124.
Lydekker, R. 1887 E, 158.
Nopcsa, F. 1901 A, 257.
1902 B, 111, 112.
1923 H, 98.
1928 A, 184.
Osborn and Mook 1919 A, 390, 391.
1920 A, 15.
1921 A, 274, 279, 377, text-figs. 119-127.
Riggs, E. S. 1903 A, 304, 305.
Williston, S. W. 1925 B, 293.
Zittel, Eastman, etc. 1902 A, 235.

Amphicœlias altus Cope.

Hay, O. P. 1902 A, 486.
Abel, O. 1925 A, 251, fig. 186.
Cope, E. D. 1878 KK, 476.
Mook, C. C. 1916 A, 136.
Osborn and Mook 1919 A, 388.
1921 A, 275, text-figs. 17, 18, 120-127.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Amphicœlias fragillimus Cope.

Hay, O. P. 1902 A, 486.
Cope, E. D. 1891 N, 43.
Mook, C. C. 1916 A, 137.
1921 A, 278, text-fig. 21.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Amphicœlias latus Cope.

Hay, O. P. 1902 A, 486.
Ballou, W. H. 1897 A, 21, fig.
Gilmore, C. W. 1922 A, 4 (Amphicœlus).
Hay, O. P. 1910 C, 25.
Mook, C. C. 1916 A, 136.
Osborn and Mook 1919 A, 388.
  1921 A, 277, text-figs. 19, 20, 119.
  Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

DYSTROPHÆUS Cope. Type *D. viæmalæ* Cope.

Hay, O. P. 1902 A, 497.
Arldt, T. 1907 D, 330.
Case, E. C. 1898 C, 641.
Hennig, E. 1924 A, 122.
Huene, F. 1904 A, 319.
  1908 B, 347.
  1908 D, 295.
  1909 B, 14.
  1927 C, 122.
Lull, R. S. 1910 A, 16.
  1924 A, 234.
Nopcsa, F. 1901 A, 267 (Dystropheus).
  1901 B, 213.
  1906 A, 83.
  1928 A, 184.
Williston, S. W. 1925 B, 293.
Zittel and Broili 1911 A, 285 (Distrophæus).
Zittel and Broili 1923 A, 350 (Distrophæus).
  A sauropod of doubtful family.

Dystrophæus viæmalæ Cope.

Hay, O. P. 1902 A, 497.
Cross, W. 1907 A, 639.
Huene, F. 1904 A, 319, pls. xiv-xvi; text-figs. 4, 5.
  1922 A, 88.
  1927 B, 457.
Merrill, G. P. 1907 A, 70.
Mook, C. C. 1916 A, 135.
Nopcsa, F. 1901 A, 261 (Symphyrophus viemale); 267 (D. viemale).
  1901 B, 207 (Symphyrophus viemale); 213 (Dystrophæus viemale).
  Upper Jurassic (McElmo); Utah.

APATODON Marsh. Type *A. mirus* Marsh.

Hay, O. P. 1902 A, 506.
Hennig, E. 1924 A, 130.
Huene, F. 1909 B, 18.
  A doubtful genus of doubtful position.

Apatodon mirus Marsh.

Hay, O. P. 1902 A, 506.
Mook, C. C. 1916 A, 147.
  Upper Jurassic or Lower Cretaceous; Locality uncertain.

BRACHYROPHUS Cope. Type *B. altarkansanus* Cope.

Hay, O. P. 1902 A, 506.
Hennig, E. 1924 A, 130 (Brachyrhophus).
Huene, F. 1909 B, 18 (Brachyrhophus).
  A genus of uncertain position.

Brachyrophus altarkansanus Cope.

Hay, O. P. 1902 A, 506.
Mook, C. C. 1916 A, 148.
Osborn and Mook 1919 A, 390.
  Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

ALAMOSAURUS Gilmore. Type *A. sanjuanensis* Gilmore.

Gilmore, C. W. 1922 A, 1.
Huene, F. 1927 B, 468, 469.
  1927 C, 126.
Lull, R. S. 1924 A, 251, 270.

Alamosaurus sanjuanensis Gilmore.

Gilmore, C. W. 1922 A, 1, pls. i, ii.
  1921 D, 274 ("sauropod dinosaur").
Reeside, J. B. 1924 A, 31.
  Upper Cretaceous (Ojo Alamo); New Mexico.

Order ORTHOPODA Cope.

Cope, E. D. 1866 E, 316.
Hay, O. P. 1902 A, 495.
Abel, O. 1911 A, 161, 171 (Orthopoda); 171 (Ornithischia).
  1912 F, 276, 292, 689.
  1916 A, 495 ("orthopoden"); 471, 495 (Ornithischia).
  1919 A, 614 (Ornithischia).
  1920 A, 386 (Ornithischia).
  1921 A, 251, 264 ("ornithischier").
  1922 C, 353, 371 ("ornithischier").
Altmann, F. 1925 A, 105 ("orthopoden").
Arldt, T. 1909 A, 261 ("ornithischier"); 263 ("orthopoden").
  1912 A, 668 (Ornithischia).
Bigot, A. 1897 A, 464 ("prédentés").
Boas, J. E. V. 1914 B, 568 (Ornithischia).
Boulenger, G. A. 1903 A, 357.
  1904 C, 480.
Broom, R. 1913 J, 364 (Predentata).
  1914 H, 1076 (Predentata).
  1924 B, 64, fig. 13 (Predentata).
Case, E. C. 1897 D, 88 (Predentata).
  1898 C, 639 (Predentata).
Cope, E. D. 1891 N, 43.
Dollo, L. 1905 B, 251 ("prédentariens").
  1906 A, 445 ("prédentariens").
Drevermann, F. 1911 A, 274 (Ornithischia).
Fraas, E. 1911 B, 33 ("orthopoden").
Gadow, H. 1896 C, 204.
  1901 B, 424.
Gilmore, C. W. 1907 A, 164.
  1924 H, 3 (Ornithischia).
  1927 B, 96 (Ornithischia).

Gregory, W. K. 1919 A, 19 (Ornithischia).
Haeckel, E. 1873 A, 531 (Therosauria).
Hatcher, J. B. 1901 A, 129 (Predentata).
1901 D, 54 (Predentata).
1903 A, 47 (Predentata).
1904 A, 353 (Predentata).
1907 A, 10 (Predentata).
Hay, O. P. 1910 C, 23.
1911 B, 410 (Predentata).
Heilmann, G. 1926 A, 206 ("predentates").
Hennig, E. 1912 B, 99 ("predentaten").
1924 A, 129, 130 (Orthopoda); 129, 130 (Ornithischia).
Hilzheimer, M. 1913 A, 515 (Prædentata).
Hooley, R. W. 1912 A, 48.
Huene, F. 1908 B, 307, 351 (Orthopoda); 406 (Ornithischia).
1908 F, 401 (Ornithischia).
1909 B, 16 (Ornithischia); 17 (Orthopoda).
1910 A, 78 (Ornithischia).
1914 A, 145 (Ornithischia).
1914 B, 444 (Ornithischia).
1914 C, 580 (Ornithischia).
1914 D, 154 (Ornithischia).
1914 G, 38 (Ornithischia); 41 ("orthopoden").
1914 K, 16 (Ornithischia).
1922 E, 24 (Ornithischia).
1922 F, 409 (Ornithischia).
1925 G, 316 ("ornithischier").
1927 E, 326 ("ornithischier").
Huene and Lull 1908 A, 134 (Ornithischia).
Huxley, T. H. 1870 G, 478.
Jaekel, O. 1910 C, 339 (Postpubici).
1911 A, 159 (Postpubici).
Koken, E. 1900 A, 464 (Prædentata).
Lebedinsky, N. G. 1913 A, 768.
1913 B, 195 ("prædentaten").
1914 A, 88 ("prædentaten").
Lucas, F. A. 1902 B, 169 (Predentata).
Lull, R. S. 1904 A, 499.
1904 D, 144 ("herbivorous dinosaurs").
1910 A, 3, 10, 16, 29.
1912 A, 210.
1912 B, 771 (Predentata).
1915 A, 117 (Ornithischia); 207 (Orthopoda).
1915 C, 329 (Predentata).
1915 F, 836 ("predentate dinosaurs").
1917 A, 473 ("predentates").
1917 B, 294, 505, 518 (Ornithischia).
1924 A, 236 (Orthopoda); 307 (Ornithischia).
Lydekker, R. 1912 C, 23.
Marsh, O. C. 1881 E, 423 (Ornithopoda).
Matthew, W. D. 1915 A, 278 (Predentata).
1915 C, 28 (Predentata); 31, 32, 75 (Ornithischia); 75 (Orthopoda).
1915 L, 28, 75 ("predentates").
1921 D, 211 (Ornithischia).
1923 C, 408 (Ornithischia).
Mehnert, E. 1887 B, 217 ("orthopoden").
Middleton, J. 1844 A, 287 ("iguanodon").
Mook, C. C. 1918 A, 467 ("ornithischians").
Nopcsa, F. 1901 A, 261.
1905 A, 203.
1907 A, 231.
1911 A, 111.
1915 B, 1.
1917 A, 204, 209.
1917 B, 339, 348.
1918 B, 235, 239.
1922 A, 115, 116 (Ornithischia).
1923 H, 4-187, tab.
1926 A, 658 ("orthopodous dinosaurs").
1928 A, 184.
Osborn, H. F. 1903 H, 456, 466.
1904 H, 114.
1905 C, 295.
1924 B, 16 (Ornithischia).
Perrier, E. 1920 A, 312 ("orthopodes").
Pompeckj, J. F. 1921 A, 4 ("ornithischier").
Reynolds, S. H. 1897 A, 208, 292.
Romer, A. S. 1923 A, 141 (Ornithischia).
1927 C, 226, 230 (Ornithischia).
Seeley, H. G. 1887 F, 562 (Omosauria).
1888 B, 698 (Ornithischia).
1888 C, 86 (Ornithischia).
1888 G, 170 (Ornithischia).
1888 I, 240 (Ornithischia).
1894 B, 233 (Ornithischia).
1894 D, 412 (Ornithischia).
1904 A, 339 ("ornithosaurs").
Simpson, G. G. 1926 I, 454 (Ornithischia).
Steiner, H. 1922 A, 339 (Ornithischia).
Steinmann, G. 1907 A, 450.
1909 A, 67 (Ornithischia); 87 (Prædentata).
1910 A, 99 (Ornithischia).
Stromer, E. 1912 A, 88 (Ornithischia).
Tolmachoff, I. 1924 A, 490 ("predentate dinosaurs").
Tornier, G. 1913 B, 270, 375 (Prædentata).
Van den Broeck, E. 1900 A, 82, 85 ("orthopodes").
Van Straelen, V. 1925 A, 1, fig. 1 (Protoceratops?).
Versluys, J. 1910 B, 221 ("prädentaten").
1923 A, 9 (Ornithischia).
Whitnal, H. O. 1925 A, 15 (Ornithischia).
Wieland, G. R. 1925 A, 603.
Williston, S. W. 1914 A, 18, 45.
1917 C, 412 (Predentata); 414 (Ornithischia).
1918 A, 79 (Predentata).
1925 A, 19, 142, 197 (Predentata); 118, 149 (Ornithischia).
1925 B, 214, 294 (Orthopoda, Ornithischia).
Zittel and Broili 1911 A, 288 (Prædentata); 278 (Ornithischia).
1923 A, 353, 366 (Orthopoda); 353 (Ornithischia).
Zittel, Eastman, etc. 1902 A, 237 (Predentata).

Superfamily IGUANODONTOIDÆ, new form.

Hay, O. P. 1902 A, 500 (Iguanodontoidea).
Abel, O. 1912 F, 278 ("ornithopoden").
1919 A, 614 (Orthopoda).
1922 C, 348 ("iguanodontiden").
Arldt, T. 1907 D, 669 (Ornithopoda).
Arldt, T. 1909 A, 263 ("ornithopoden").
1912 A, 669, 679 (Ornithopoda).
Berkey, C. P. 1923 A, 3 (Ornithopoda).
Bigot, A. 1897 A, 463 ("ornithopodes").
Case, E. C. 1897 D, 88 (Ornithopoda).

Dames, W. 1883 C, 272 (Orthopoda).
Dollo, L. 1889 H, 679 ("ornithopodes").
1905 B, 251 ("prédentariens quadrupèdes").
1923 B, 67 ("iguanodons").
Fraas, E. 1911 B, 30 ("ornithopoden").
Fürbringer, M. 1888 A, 1620 (Ornithopoda).
Gadow, H. 1896 C, 205 (Ornithopoda).
1901 B, 426 (Ornithopoda).
Gilmore, C. W. 1909 A, 267 (Iguanodontidea).
Granger and Gregory 1923 A, 3 (Ornithopoda).
Günther, A. 1886 A, 443 (Ornithopoda).
Haeckel, E. 1868 A, 455 (Therosauria).
Hatcher, J. B. 1901 A, 129 (Ornithopoda).
1904 A, 353 (Iguanodontia).
1907 A, 157, 298 (Ornithopoda).
Heilprin, A. 1887 A, 162 (Ornithopoda).
Hennig, E. 1924 A, 128.
Hoernes, R. 1886 A, 616 (Ornithopoda).
Hoffmann, C. K. 1890 B, 1311 (Ornithopoda).
Huene, F. 1908 B, 370, 375 ("ornithopoden").
1909 B, 16 (Ornithopoda).
1914 A, 145.
1914 G, 41 ("ornithopoden").
Hulke, J. W. 1875 A, 364, fig. 1 (Iguanodon).
Jaekel, O. 1914 A, 197 (Phytophagi).
Johnson, A. 1883 A, 408 (Ornithopoda).
Koken, E. 1900 A, 464 (Ornithopoda).
Lafitte, J. P. 1905 A, 410 ("ornithopodes").
Lönnberg, E. 1910 A, 17 (Ornithopoda).
Lull, R. S. 1910 A, 3, 31 (Ornithopoda).
1912 A, 210 (Ornithopoda, Iguanodontia).
1914 D, 357 (Ornithopoda).
1915 F, 836 (Ornithopoda).
1917 B, 518 (Ornithopoda).
1924 A, 307 (Ornithopoda).
Lydekker, R. 1912 C, 29, 137 (Ornithopoda).
Matthew, W. D. 1915 C, 32, 77, 82 (Ornithopoda, Iguanodontia).
Nopcsa, F. 1901 A, 273 (Ornithopodidæ).
1901 B, 208 (Ornithopodidæ).
1902 C, 149, 168 ("ornithopodiden"); 164 (Kalodontidæ).
1905 A, 204 (Ornithopodidæ).
1905 D, 289 (Ornithopodidæ).
1911 A, 147 (Ornithopodidæ).
1915 B, 17 (Kalodontidæ, Trachodontidæ, Ornithopodidæ).
1916 A, 419 ("orthopoden").
1917 A, 207 (Kalodontidæ, Trachodontidæ).
1918 A, 196 ("ornithopoden").
1922 A, 115 (Ornithopoda).
1923 D, 112, 113 (Ornithopodidæ).
1923 H, 107, —109, 145, 149, 172, 175, tab. (Ornithopoda).
1928 A, 184 (Ornithopoidea).
Osborn, H. F. 1902 I, 18 (Iguanodontia).
1904 N, 308 (Ornithopoda).
1922 D, 723, fig.
1923 D, 8 (Iguanodontia).
1924 L, 143 (Iguanodontia).
Palacký, J. 1902 B, 141 (Ornithopoda).
Peck, F. B. 1904 A, 31 (Ornithopoda).
Pompeckj, J. F. 1921 A, 4 ("ornithopoden").
1922 B, 87 ("ornithopoder").
Reynolds, S. H. 1897 A, 209 (Ornithopoda).
Romer, A. S. 1927 C, 234, 258 (Ornithopoda).
Seeley, H. G. 1888 G, 168, 171 (Ornithopoda).
1888 J, 698 ("ornithosaurs").
Simpson, G. G. 1926 H, 208 (Ornithopoda).
1926 I, 454 (Ornithopoda).
Steinmann, G. 1908 A, 219 ("ornithopoden").
1910 A, 99 ("orthopoden").
Stromer, E. 1912 A, 88 (Ornithopoda).
Terra, P. 1911 A, 241 ("ornithopoden").
Vallois, H. V. 1921 A, 971 ("ornithopodes").
Van den Broeck, E. 1900 A, 85 (Ornithopoda).
Versluys, J. 1912 B, 687 (Ornithopoda).
1923 A, 9 (Ornithopodidæ).
Whitnal, H. O. 1925 A, 15 (Ornithopoda).
Williston, S. W. 1925 B, 295 (Iguanodontidæ).
Woodward, A. S. 1897 C, 380 ("iguanodonts").
Zittel and Broili 1911 A, 289 (Ornithopodidæ).
1923 A, 354 (Ornithopodidæ).

NANOSAURIDÆ Marsh.

Hay, O. P. 1902 A, 505.
Abel, O. 1919 A, 617.
Arldt, T. 1907 D, 667.
1909 A, 263 ("nanosauriden").
1912 A, 662, 668.
Hennig, E. 1924 A, 129.
Huene, F. 1909 B, 16.
1914 G, pl. vii.
Koken, E. 1900 A, 464.
Matthew, W. D. 1915 C, 32.
Nopcsa, F. 1901 A, 262, 274.
1928 A, 184 (Kalodontidæ, Nannosaurinæ).
Van den Broeck, E. 1900 A, 87.
Williston, S. W. 1925 B, 294.

NANOSAURUS Marsh. Type *N. agilis* Marsh.

Hay, O. P. 1902 A, 505.
Abel, O. 1919 A, 617.
Anonymous 1878 A, 76.
Cannon, G. L. 1894 A, 246.
Case, E. C. 1898 C, 640.
1908 D, 561, figs. 7-10.
Fraas, E. 1911 B, 33.
Gilmore, C. W. 1915 A, 614.
Gregory, W. K. 1907 B, 36, pl.
Hennig, E. 1912 B, 98.
Hoernes, R. 1886 A, 617.
Huene, F. 1906 B, 152, fig. 92.
1908 B, 273, 306, 375.
1909 B, 16.
1914 G, 41.
Huene and Lull 1908 A, 134.
Lull, R. S. 1910 A, 17.
1917 B, 518.
1924 A, 238, 260.
Lydekker, R. 1912 C, 110.
Nopcsa, F. 1901 A, 263.
1905 C, 292.
1917 A, 208.
1918 B, 239.
1928 A, 184 (Nannosaurus).
Perrier, E. 1920 A, 308.
Romer, A. S. 1927 C, 226, 234.
Schuchert, C. 1918 B, 261.

Van den Broeck, E. 1900 A, 87.
Williston, S. W. 1905 B, 339.
1909 E, 194.
Zittel and Broili 1911 A, 289.
1923 A, 354.

Nanosaurus agilis Marsh.

Hay, O. P. 1902 A, 505.
Abel, O. 1912 F, 274.
Gilmore, C. W. 1925 B, 404.
Heilmann, G. 1926 A, 145, 161, fig. 106.
Huene, F. 1908 B, 318, 375, fig. 336.
Huene and Lull 1908 A, 134, pl. xiii; text-figs. 1-10.
Nopcsa, F. 1902 C, 152.
Talbot, M. 1911 A, 475.
Triassic or Jurassic (Morrison?); Colorado.

Nanosaurus rex Marsh.

Hay, O. P. 1902 A, 505.
Gilmore, C. W. 1909 B, 40.
Huene and Lull 1908 A, 142.
Nopcsa, F. 1902 C, 152.
Jurassic (Morrison); Colorado.

CAMPTOSAURIDÆ Marsh.

Hay, O. P. 1902 A, 501.
Abel, O. 1919 A, 617 (Camptosaurinæ).
Arldt, T. 1907 D, 643.
1909 A, 263 ("camptosauriden").
1912 A, 668.
Dollo, L. 1889 H, 679.
Gilmore, C. W. 1924 E, 43.
1925 A, 375.
1925 B, 400.
1927 B, 96.
Hennig, E. 1924 A, 129.
Hoernes, R. 1886 A, 616 (Camptonotidæ).
Hoffmann, C. K. 1890 B, 1313 (Camptonotidæ).
Huene, F. 1909 B, 16.
Koken, E. 1900 A, 464.
Lull, R. S. 1924 A, 238.
Matthew, W. D. 1915 C, 32.
Nopcsa, F. 1901 A, 262, 274, 275.
1901 B, 208, 210.
1917 A, 208.
1918 A, 187 ("camptosaurier").
1923 H, 108, 126 (Camptosaurinæ).
1928 A, 184 (Camptosaurinæ).
Romer, A. S. 1927 C, 226.
Williston, S. W. 1925 B, 295.
Zittel and Broili 1911 A, 289.
1923 A, 354.

CAMPTOSAURUS Marsh. Type *Camptonotus dispar* Marsh.

Hay, O. P. 1902 A, 501.
Abel, O. 1910 D, 6.
1912 F, 268.
1916 A, 471, 496, figs. 3, 8.
1919 A, 617, fig. 484.
1920 A, 387, fig. 603.
1922 A, 145.
1922 C, 358, fig. 308.
Anonymous 1880 A, 113 (Camptonotus).
Arthaber, G. 1910 A, 554.
Boas, J. E. V. 1914 B, 568, fig. 19.
Boule, M. 1902 B, 908, fig. 14.
Brauns, D. 1890 A, 187 (Camptonotus).
Case, E. C. 1898 C, 640.
Dames, W. 1883 C, 272 (Camptonotus).
Darton, N. H. 1908 A, 446.
Dollo, L. 1889 H, 679.
Eastman, C. R. 1913 B, 678.
Gadow, H. 1896 C, 205.
1901 B, 426.
Gilmore, C. W. 1907 A, 164, fig. 8.
1909 A, 199, 204, 266, 268, 301, figs. 2, 3, 7, 8.
1912 A, 687, fig. 3.
1913 A, 4.
1919 A, 111.
1924 G, 17, 21, 26.
1924 H, 3.
1925 A, 363.
1925 B, 385, 396.
Gregory, W. K. 1901 A, 145.
1920 A, 125.
Hay, O. P. 1909 A, 96.
1910 C, 4.
Heilmann, G. 1916 A, 86.
1926 A, 203, fig. 105.
Heilprin, A. 1887 A, 162 (Camptonotus).
Hoernes, R. 1886 A, 616 (Camptonotus).
Hoffmann, C. K. 1890 B, 1313 (Camptonotus).
Hooley, R. W. 1925 A, 4.
Huene, F. 1906 B, 151, fig. 94.
1908 B, 281, 360, 376.
1909 B, 16.
1914 C, 582, pl. xi, fig. 3.
1914 G, pl. vii.
Kingsley, J. S. 1925 A, 268, fig. 292.
Lebedinsky, N. G. 1913 A, 768.
1913 B, 197.
Loomis, F. B. 1901 A, 195.
Lull, R. S. 1910 A, 3.
1912 C, 674.
1917 A, 473.
1917 B, 507, 519, figs. 151, 159, 163.
1924 A, 238, 261, fig. 28.
Lydekker, R. 1913 A, 15 (Champtosaurus).
Matthew, W. D. 1910 D, 555.
1915 C, 76, 80, figs. 25, 26.
Moodie, R. L. 1917 B, 391.
1923 B, 245, pl. L, fig. 23.
Mook, C. C. 1916 A, 155.
Nopcsa, F. 1900 A, 560.
1901 A, 263, 275.
1902 C, 157, 168.
1903 B, 486.
1904 A, 234.
1905 A, 206.
1915 B, 16.
1917 A, 208 (Camptosaurus, Camptonotus).
1917 B, 341, 349.
1918 A, 186, 187.
1918 B, 239.
1923 D, 105.
1923 E, 1046.
1923 H, 108, 145.
1928 A, 184.

Osborn, H. F. 1917 B, 221, 222, fig.
1924 B, 4, 5, 10, 12, fig. 7.
Parks, W. A. 1926 A.
Peck, F. B. 1904 A, 32.
Pompeckj, J. F. 1920 A, 120.
1922 B, 88.
Rogers, A. F. 1924 A, 546.
Romer, A. S. 1927 C, 226, figs. 2, 7, 11, 20.
Schuchert, C. 1910 A, 582.
Seeley, H. G. 1888 G, 169, fig. (Camptonotus).
1892 D, 82.
Simpson, G. G. 1926 H, 205, 211.
Steiner, H. 1922 A, 347.
Steinmann, G. 1909 A, 79.
Tornier, G. 1913 B, 371.
Van den Broeck, E. 1900 A, 90.
Versluys, J. 1910 B, 223, fig. W.
1923 A, 9, fig. *b*.
Wieland, G. R. 1925 A, 602.
Williston, S. W. 1909 A, 397.
1925 A, 103, 164, 176, figs. 80, 132*b*.
1925 B, 295.
Zittel and Broili 1911 A, 289.
1923 A, 355.
Zittel, Eastman, etc. 1902 A, 238.

Camptosaurus amplus Marsh.

Hay, O. P. 1902 A, 501.
Gilmore, C. W. 1909 A, 276, pls. vii-ix, xvii; text-fig. 38.
Lull, R. S. 1924 A, 269.
Mook, C. C. 1916 A, 146.
Nopcsa, F. 1902 C, 152.
Upper Jurassic (Morrison); Wyoming.

Camptosaurus browni Gilmore.

Gilmore, C. W. 1909 A, 201, 230, 295, pl. vi; pl. xiv, fig. 3; text-figs. 14-19, 21, 23-27, 30.
Abel, O. 1919 A, 621, fig. 487.
Gilmore, C. W. 1912 B, 687, 688, pls. lv-lviii.
1914 A, 4.
1925 B, 388.
Heilmann, G. 1926 A, 151, fig. 108.
Lull, R. S. 1924 A, 269.
Moodie, R. L. 1923 B, 266, pl. L.
Mook, C. C. 1916 A, 147.
Nopcsa, F. 1918 A, 187, 190, 196.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Camptosaurus depressus Gilmore.

Gilmore, C. W. 1909 A, 292, figs. 45-47.
1914 A, 4, 114.
1915 A, 607.
1925 B, 391.
Mook, C. C. 1916 A, 147.
Nopcsa, F. 1918 A, 187, 196.
Simpson, G. G. 1926 H, 207.
Upper Cretaceous (Lakota); South Dakota, Wyoming.

Camptosaurus dispar Marsh.

Hay, O. P. 1902 A, 501.
Abel, O. 1919 A, 620, figs. 485, 486, 488, 489.
Gilmore, C. W. 1909 A, 198, 205, 269, pls. x-xiv, fig. 1; pls. xv, xviii; text-figs. 4, 5, 10-12, 20, 22, 28, 29, 32-37.
1912 B, 688, figs. 1, 4.
1914 A, 4, 88.
1915 A, 600.
1925 B, 388.
Hay, O. P. 1909 F, 94.
Heilmann, G. 1926 A, 153, figs. 109, 110, 116.
Lull, R. S. 1924 A, 269.
Mook, C. C. 1916 A, 145.
Nopcsa, F. 1902 C, 152.
1918 A, 187, 195, fig. 8.
Schuchert, C. 1918 B, 253.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Camptosaurus medius Marsh.

Hay, O. P. 1902 A, 501.
Abel, O. 1919 A, 624, fig. 490.
Gilmore, C. W. 1909 A, 213, 258, 278, pl. xvi; text-figs. 6, 9, 31.
1914 A, 4, 25.
1925 B, 385, 406, pl. xviii; text-figs. 1, 2.
Heilmann, G. 1926 A, 45, figs. 106, 107.
Mook, C. C. 1916 A, 146.
Nopcsa, F. 1902 A, 152, fig. 7.
1904 A, 237.
1918 A, 187, fig. 7.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming, Colorado.

Camptosaurus nanus Marsh.

Hay, O. P. 1902 A, 501.
Abel, O. 1919 A, 618, fig. 483.
1922 C, 433, fig. 361.
Gilmore, C. W. 1909 A, 198, 227, 280, pl. xiv, fig. 2; pl. xix; text-figs. 39-42.
1912 B, 687, 694, pls. lix-lxi.
1914 A, 4.
1924 G, 33, 36.
1925 B, 390.
Heilmann, G. 1926 A, 176, fig. 127.
Lull, R. S. 1924 A, 269.
Merrill, G. P. 1907 A, 65.
Mook, C. C. 1916 A, 146.
Nopcsa, F. 1902 C, 152.
1918 A, 187.
Osborn, H. F. 1915 A, 298.
Simpson, G. G. 1926 H, 207.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

LAOSAURIDÆ Marsh.

Marsh, O. C. 1895 C, 497.
Hay, O. P. 1902 A, 501 (Camptosauridæ, in part).
Abel, O. 1919 A, 617 (Laosaurinæ).
Gilmore, C. W. 1909 A, 267.
1915 A, 614.
1925 B, 400.
Koken, E. 1900 A, 464.
Osborn, H. F. 1923 D, 9.
Romer, A. S. 1927 C, 226.
Williston, S. W. 1925 B, 295.

LAOSAURUS Marsh. Type *L. celer* Marsh.

Hay, O. P. 1902 A, 501.
Abel, O. 1919 A, 617.
Beddard, F. E. 1898 A, 155.
Brauns, D. 1890 A, 187.
Dames, W. 1883 C, 272.
Darton, N. H. 1908 A, 446.
Dollo, L. 1889 H, 679.
Du Toit, P. J. 1913 A, 248.
Gadow, H. 1896 C, 205.
    1901 B, 427.
Gilmore, C. W. 1909 A, 216.
    1915 A, 614.
    1924 H, 1.
    1925 B, 395.
Hay, O. P. 1910 C, 4.
Heilprin, A. 1887 A, 162.
Hoernes, R. 1886 A, 616.
Hooley, R. W. 1925 A, 8.
Huene, F. 1906 B, 151, fig. 93.
    1908 B, 273, 361.
    1909 B, 16.
    1914 G, 41, pl. vii.
Huene and Lull 1908 A, 140.
Huxley, T. H. 1879 A, 400, pl. viii, fig. 8.
Johnson, A. 1883 A, 408.
Lebedinsky, N. G. 1913 A, 768.
    1913 B, 197.
Lull, R. S. 1910 A, 3, 11.
    1915 C, 330.
    1917 A, 473.
    1917 B, 519.
Mudge, B. F. 1879 A, 226.
Nopcsa, F. 1901 A, 263.
    1902 C, 168.
    1904 A, 235.
    1917 A, 208.
    1917 B, 349.
    1918 B, 239.
    1928 A, 184.
Peck, F. B. 1904 A, 32.
Romer, A. S. 1927 C, 226, 241, figs. 7, 11.
Seeley, H. G. 1887 E, 211.
Simpson, G. G. 1926 H, 205.
Tornier, G. 1913 B, 371.
Williston, S. W. 1925 B, 295.
Zittel and Broili 1911 A, 289.
    1923 A, 354.

Laosaurus celer Marsh.

Hay, O. P. 1902 A, 501.
Gilmore, C. W. 1924 H, 5.
    1925 B, 403.
Mook, C. C. 1916 A, 146.
Nopcsa, F. 1902 C, 153.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Laosaurus consors Marsh.

Hay, O. P. 1902 A, 501.
Gilmore, C. W. 1924 H, 2.
    1925 B, 396, 403.
Gregory, W. K. 1927 C, 175, fig. 5.
Huene, F. 1908 B, 273.
Huene and Lull 1908 A, 140.
Mook, C. C. 1916 A, 146.
Nopcsa, F. 1902 C, 153, fig. 5.
Simpson, G. G. 1926 E, 3 (This genus?).
Talbot, M. 1911 A, 475.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Laosaurus gracilis Marsh.

Hay, O. P. 1902 A, 501.
Gilmore, C. W. 1909 B, 39, 40, fig. 2.
    1914 A, 25.
    1924 H, 5.
    1925 B, 396, 403, figs. 7, 8.
Mook, C. C. 1916 A, 146.
Nopcsa, F. 1902 C, 153.
Simpson, G. G. 1926 E, 3.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Laosaurus minimus Gilmore.

Gilmore, C. W. 1924 H, 1, pls. i, ii.

Lower Cretaceous (Blairmore); Alberta.

DRYOSAURUS Marsh. Type *Laosaurus altus* Marsh.

Hay, O. P. 1902 A, 501.
Clark, Bibbins, and Berry 1911 A, 67.
Darton, N. H. 1908 A, 446.
Gilmore, C. W. 1909 A, 216.
    1915 A, 614.
    1925 B, 394.
Huene, F. 1909 B, 16.
    1914 G, 41.
Lebedinsky, N. G. 1913 A, 768.
    1913 B, 197.
Lull, R. S. 1904 A, 471.
    1910 A, 18, 29.
    1911 A, 175.
    1924 A, 239.
Mook, C. C. 1916 A, 153.
Nopcsa, F. 1901 A, 263.
    1902 C, 163.
    1928 A, 184.
Pompeckj, J. F. 1920 A, 126.
Romer, A. S. 1927 C, 226, fig. 2.

Dryosaurus altus Marsh.

Hay, O. P. 1902 A, 501.
Eisler, P. 1895 A, 53 (Laosaurus).
Gilmore, C. W. 1909 A, 198.
    1914 A, 4.
    1924 H, 3.
    1925 B, 394, figs. 3-6.
Heilmann, G. 1926 A, 23, fig. 12.
Lull, R. S. 1911 B, 176.
Mook, C. C. 1916 A, 147.
Nopcsa, F. 1902 C, 152.
Simpson, G. G. 1926 E, 3.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado, Wyoming.

HYPSILOPHODONTIDÆ.

Abel, O. 1919 A, 617 (Hypsilophodontinæ).
1920 A, 386.
1922 C, 376, figs. 321-324 (Hypsilophodon).
Gilmore, C. W. 1915 A, 614.
1927 B, 96.
Günther, A. 1886 A, 443.
Hulke, J. W. 1873 A, 522, pl. xviii (Hypsilophodon).
1874 A, 18, pl. iii (Hypsilophodon).
1883 B, 1035, pls. lxxi-lxxxii (Hypsilophodon).
Huxley, T. H. 1870 E, 3, pls. i, ii (Hypsilophodon).
Lydekker, R. 1888 B, 193 (Hypsilophodon).
Marsh, O. C. 1895 C, 498, pl. x, fig. 9.
1896 A, 6, figs. 2, 3 (Hypsilophodon).
1896 C, 244 (Hypsilophodon).
Nicholson and Lydekker 1889 A, 1159 (Hypsilophodon).
Nopcsa, F. 1901 A, 262.
1901 B, 208, 209.
1928 A, 184 (Hypsilophodontinæ).
Owen, R. 1873 B, 531 (Iguanodon).
Parks, W. A. 1926 A (Hypsilophodontidæ).
Pompeckj, J. F. 1920 A, 120 (Hypsilophodon).
Romer, A. S. 1927 C, 226.
Zittel, K. A. 1890 A, 756 (Hypsilophodon).
Zittel and Broili 1911 A, 289.
1923 A, 354.

THESCELOSAURUS Gilmore. Type *T. neglectus* Gilmore.

Gilmore, C. W. 1913 A.
Abel, O. 1916 A, 471, fig. 3.
1920 A, 387, fig. 603.
1922 C, 358, fig. 308.
Gilmore, C. W. 1914 A, 66.
1915 A, 591.
1915 D, 411, 488.
1920 C, 274.
1924 G, 33.
1924 H, 3.
1925 B, 408.
Lull, R. S. 1924 A, 238.
Matthew, W. D. 1915 C, 81.
Nopcsa, F. 1923 E, 1046.
1923 H, 108 (Thescelesaurus).
1928 A, 184.
Osborn, H. F. 1924 B, 4, 5, 10, 12, fig. 7.
Parks, W. A. 1928 A, 15.
Romer, A. S. 1927 C, 226, figs. 2, 7, 11, 14-18.
Steiner, H. 1922 A, 347.
Williston, S. W. 1925 A, 175, 191, figs. 141, 156.
Zittel and Broili 1923 A, 354.

Thescelosaurus neglectus Gilmore.

Gilmore, C. W. 1913 A, 1, figs. 1-5.
Bowen, C. F. 1915 A, 136.
Brown, B. 1914 E, 358.
Collier, A. J. 1918 A, 32.
Gilmore, C. W. 1915 A, 591, pls. lxxix-lxxxi; text-figs. 1-19.
1920 C, 274, pl. iii.
1924 A, 68.
1924 D, 27.
1925 B, 388.
1926 I, 280, fig. 1 ("Thescelosaurus").
Parks, W. A. 1926 A.
Shufeldt, R. W. 1916 B, 42, fig. 7.
Sternberg, C. M. 1924 A, 68.
Upper Cretaceous (Lance); Wyoming, Montana, Saskatchewan.

Thescelosaurus warreni Parks.

Parks, W. A. 1926 A, 3-42, pls. i, ii; text-figs. 1-18.
Huene, F. 1927 G, 281.
Upper Cretaceous (Edmonton); Alberta.

Thescelosaurus sp. indet.

Sternberg, C. M. 1926 A, 103. Upper Cretaceous (Edmonton); Alberta.

TROÖDONTIDÆ *Gilmore.*

Gilmore, C. W. 1924 G, 8.
Lambe, L. M. 1918 A, 32, 35 (Psalisauridæ).
Lull, R. S. 1924 A, 238.
Nopcsa, F. 1928 A, 185 (Acanthopholidæ).
Romer, A. S. 1927 C, 226.

TROÖDON Leidy. Type *T. formosus* Leidy.

Hay, O. P. 1902 A, 490.
Gilmore, C. W. 1923 B, 52.
1924 G (Troödon; Stegoceras a syn.).
Hatcher, J. B. 1907 A, 97, 299, pl. xxii.
Hennig, E. 1924 A, 125, 126, 153 (Stegoceras).
Huene, F. 1909 B, 17 (Troödon); 18 (Stegoceras).
Lambe, L. M. 1902 A, 68 (Stegoceras, type *S. validus* Lambe).
1903 A, 60 (Stegoceras).
1904 C, 23 (Stegoceras).
1912 A, 9 (Stegoceras).
1918 A, 23, 33 (Stegoceras).
Lull, R. S. 1924 A, 236, 238, 260, 273.
Nopcsa, F. 1901 A, 255.
1902 B, 106.
1903 D, 266 (Stegoceras).
1915 B, 13, 19 (Stegoceras).
1917 A, 210 (Troödon); 211 (Stegoceras).
1918 C, 326 (Stegoceras).
1923 H, 105 (Stegoceras).
Osborn, H. F. 1902 H, 675 (Stegoceras).
1902 I, 21 (Stegoceras).
1923 D, 3 (Stegoceras).
1924 B, 5, 10.
Romer, A. S. 1927 C, 226, figs. 3, 4, 8.
Zittel and Broili 1923 A, 362 (Syn. of Ankylosaurus).

Troödon brevis (Lambe).

Lambe, L. M. 1918 A, 35 (Stegoceras).
Gilmore, C. W. 1924 G, 10, 12 (Syn.? of T. validus).

Lambe, L. M. 1902 A, 68, pl. xxi, figs. 3-5 ("Stegoceras validus").
Upper Cretaceous (Belly River); Alberta.

Troödon formosus Leidy.

Hay, O. P. 1902 A, 490.
Bowen, C. F. 1915 A, 130, 148-150.
Brown, B. 1908 B, 192, fig. 8.
1914 E, 378.
Gilmore, C. W. 1924 G, 8, 38.
1927 G, 1.
Hatcher, J. B. 1905 B, 83.
Hay, O. P. 1910 B, 299.
Hennig, E. 1924 A, 115.
Lambe, L. M. 1904 C, 25, 37, 49.
1915 B, 120 (This species?).
Matthew, W. D. 1916 A, 484.
Osborn, H. F. 1902 H, 674.
1902 I, 12, 17.
Peale, A. C. 1912 A, 754.
Upper Cretaceous (Judith River); Montana: (Belly River); Alberta: (Lance?); Wyoming?

Troödon validus (Lambe).

Lambe, L. M. 1902 A, 68, pl. xxi, figs. 1, 2; not figs. 3-5 (Stegoceras).
Bowen, C. F. 1915 A, 140 (Stegoceras).
Brown, B. 1914 E, 378 (Stegoceras).
Gilmore, C. W. 1924 G, 1, 11, pls. i-xv; text-figs. 1-3.
Hatcher, J. B. 1905 B, 95 (Stegoceras).
1907 A, 98, 299, figs. 99, 100 (Stegoceras).
Lambe, L. M. 1902 A, 47 (Troödon formosus).
1904 C, 24, 37, 49 (Stegoceras).
1907 B, 179 (Stegoceras).
1918 A, 25, 32, 35, pls. i, ii (Stegoceras).
Lull, R. S. 1907 B, 299, pl. xxii; text-figs. 99, 100 (Stegoceras).
Matthew, W. D. 1916 A, 484 (Stegoceras).
Osborn, H. F. 1902 I, 15 (Stegoceras).
Upper Cretaceous (Belly River); Alberta.

Troödon sp. indet.

Sternberg, C. M. 1926 A, 104. Upper Cretaceous (Edmonton); Alberta.

HADROSAURIDÆ Cope.

Unless otherwise indicated the authors quoted use the family name Trachodontidæ.

Cope, E. D. 1869 M, 91 (Hadrosauridæ).
Hay, O. P. 1902 A, 503.
Abel, O. 1919 A, 632 (Trachodontidæ); 636 (Trachodontinæ).
1924 A, 713 ("trachodonten").
Arldt, T. 1907 D, 271, 333 (Hadrosauridæ).
1909 A, 263 ("trachodontiden").
Brown, B. 1907 A, 841.
1908 C, 51 ("trachodonts").
1910 A, 273.
1912 B, 135.
1913 B, 395.
1914 A, 545.
1914 C, 559, 563, 564.
1914 E, 377.
1917 A, 282, 290.
Cope, E. D. 1891 N, 43.
Dames, W. 1883 C, 272.
Douglass, E. 1902 C, 220 (Claosauridæ).
Gilmore, C. W. 1917 A, 38.
1920 A, 63.
1924 C, 18.
1924 E, 42.
1927 B, 96.
Günther, A. 1886 A, 443.
Hatcher, J. B. 1902 C, 377, 384 (Syn. of Iguanodontidæ).
1903 D, 374.
1907 A, 300.
Heilmann, G. 1926 A, 145.
Hennig, E. 1924 A, 129.
Henning, C. L. 1914 A, 771 ("trachodontiden").
Hoernes, R. 1886 A, 618 (Hadrosauridæ).
Hoffman, C. K. 1890 B, 1315.
Huene, F. 1909 B, 16.
1914 A, 145.
1914 G, pl. vii.
Jaekel, O. 1914 A, 197 ("hadrosauriden").
Koken, E. 1900 A, 464 (Hadrosauridæ, Claosauridæ).
Lambe, L. M. 1912 A, 9.
Lambe, L. M. 1917 C, 67 (Hadrosauridæ).
1918 C, 135 (Hadrosauridæ).
1920 A, 1, 67.
Lull, R. S. 1907 B, 300.
1912 A, 210.
1924 A, 240, 262.
Lydekker, R. 1908 B, 545.
Matthew, W. D. 1914 B, 387.
1915 A, 278.
1915 C, 32, 82.
1921 D, 211.
Nopcsa, F. 1900 A, 556 ("hadrosauriden").
1901 A, 262, 265, 275 (Hadrosauridæ).
1904 A, 237 (Hadrosauridæ).
1915 B, 217.
1917 A, 207.
1918 A, 187.
1918 B, 236.
1922 A, 115.
1923 D, 105, 112.
1923 G, 111 ("trachodontiden").
1923 H, 107-109, 145, 149, 172, 175.
1928 A, 184.
Parks, W. A. 1920 B, 9.
1923 B, 5.
Pompeckj, J. F. 1922 B, 90 ("trachodontiden").
Romer, A. S. 1927 C, 226, 235 (Hadrosauridæ, Trachodontidæ).
Sternberg, C. M. 1921 A, 63.
1925 A, 108.
1926 B, 74.
1927 B, 143.
Van den Broeck, E. 1900 A, 87 (Hadrosauridæ); 101 (Trachodontidæ).
Van Straelen, V. 1925 A, 3 ("eggs of duckbilled? dinosaur").
Versluys, J. 1910 B, 233 (Hadrosauridæ).
1923 A, 10 ("trachodonten").
Williston, S. W. 1925 A, 95, 100, 176, 189 (Trachodontia, Trachodontidæ).
1925 B, 295.
Zittel and Broili 1911 A, 291.
1923 A, 357.

HADROSAURINÆ Lambe.

Lambe, L. M. 1918 C, 138.
Brown, B. 1914 C, 564 (Trachodontinæ).
Gilmore, C. W. 1920 A, 64.
1924 C, 16, 26.
1924 E, 34, 40.
Lambe, L. M. 1920 A, 67.
Lydekker, R. 1915 C, 630 (Trachodontinæ).
Nopcsa, F. 1917 A, 208 (Trachodontidæ).
1923 H, 126 (Trachodontinæ).
1928 A, 184 (Trachodontinæ).
Parks, W. A. 1920 B, 8 (Trachodontinæ).
1923 B, 6.
Sternberg, C. M. 1926 B, 77.
Tornier, G. 1913 B, 372 (Trachodontinæ).

HADROSAURUS Leidy. Type *H. foulkii* Leidy.

Leidy, J. 1858 A, 215.
Hay, O. P. 1902 A, 503 (Trachodon, part).
Anonymous 1868 A, 8.
Brauns, D. 1890 A, 187.
Dames, W. 1883 C, 272.
Gilmore, C. W. 1920 A, 64.
Hoffmann, C. K. 1890 B, 1315.
Holmes, F. S. 1870 A, 31.
Huxley, T. H. 1868 D, 309.
1869 K, 146.
1870 G, 470, 472.
1870 H, 491.
1875 E, 81.
Lambe, L. M. 1918 C, 135.
Lull, R. S. 1918 B, 205.
1924 A, 241.
Matthew, W. D. 1915 C, 100.
Nat. Sci. 1898 A, 230.
Newberry, J. S. 1878 C, 647.
Nopcsa, F. 1917 A, 208.
1918 A, 187.
1928 A, 184.
Parks, W. A. 1920 B.
Reynolds, S. H. 1897 A, 284.
Romer, A. S. 1927 C, 226.
Seeley, H. G. 1887 E, 210.
Sternberg, C. M. 1921 B, 97.
Wieland, G. R. 1925 A, 603 ("hadrosaurs").
Williston, S. W. 1925 B, 295.
See also citations under *Trachodon*.

Hadrosaurus cavatus Cope.

Hay, O. P. 1902 A, 503 (Trachodon).
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1902 C, 380, 385 (Trachodon).
Nopcsa, F. 1900 A, 557.
Upper Cretaceous (Hornerstown); New Jersey.

Hadrosaurus foulkii Leidy.

Hay, O. P. 1902 A, 503 (Trachodon).
Abel, O. 1922 A, 134 (H. foulkei).
Anonymous 1868 A, 7.
1922 C, 382, fig. ("Hadrosaurus").
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1902 C, 378.
Hawkins, B. W. 1871 A, 182 ("Hadrosaurus").
Lucas, F. A. 1904 C, 319.
Nopcsa, F. 1900 A, 556.
1904 A, 237.
Osborn, H. F. 1902 I, 19.
Ruschenberger and Tryon 1879 A, 90, 92 (Trachodon).
Scott, W. B. 1924 A, 438 ("dinosaur").
Versluys, J. 1923 A, 9 (H. foulki).
Zittel and Broili 1911 A, 292, fig. 440 (Trachodon).
1923 A, 358, fig. 468 (H. fulkei).
Zittel, Eastman, etc. 1902 A, 240, fig. 344 (Trachodon).
Upper Cretaceous; New Jersey.

Hadrosaurus minor Marsh.

Hay, O. P. 1902 A, 504 (Trachodon).
Cope, E. D. 1872 QQ, 2.
1873 FF, 8.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1902 C, 380, 385.
Nopcsa, F. 1900 A, 557.
Upper Cretaceous (Hornerstown); New Jersey.

Hadrosaurus tripos Cope.

Hay, O. P. 1902 A, 504 (Trachodon.)
Dall and Harris 1892 A, 85.
Gilmore, C. W. 1924 C, 26.
Hatcher. J. B. 1902 C, 380, 385.
Nopcsa, F. 1900 A, 557.
Stephenson, L. W. 1912 A, 120 (Trachodon. This species?).
Upper Cretaceous (Black Creek); North Carolina.

TRACHODON Leidy. Type *T. mirabilis* Leidy.

Hay, O. P. 1902 A, 503.
Abel, O. 1912 F, 494, 705.
1916 A, 470, 496, figs. 1-3, 8.
1919 A, 636, fig. 503.
1920 A, 387, 393, fig. 603.
Bach, R. 1914 A, 347.
Beecher, C. E. 1902 A, 313, fig. 2 (Hadrosaurus).
Broili, F. 1922 A, 465, figs. 1-5.
Brown, B. 1908 C, 51, 4 figs.
1910 A, 273.
1912 A, 106, fig. 1.
1912 B, 131.
1913 B, 396.
1913 E, 926.
1914 A, 548, pls. xxxvi, xxxvii.
1914 C, 559, 564.
1914 E, 374, 377.
1916 B, 712, pl. xxii, fig. 2.
Campbell, M. R. 1915 A, 74.
Case, E. C. 1898 C, 643 (Hadrosaurus).
Cope, E. D. 1880 U, 147 (Hadrosaurus, Diclonius).
Cross, M. 1896 A, 218 (Diclonius).
Dollo, L. 1889 G, 675 (Hadrosaurus).
1909 A, 106.
Drevermann, F. 1922 B, 91.

Eastman, C. R. 1913 B, 678 (Trachydon).
Gadow, H. 1896 C, 205 (Hadrosaurus).
1901 B, 429 (Hadrosaurus).
Gill, T. 1901 B, 788 (Hadrosaurus).
Gilmore, C. W. 1909 A, 246.
1914 A, 66.
1915 C, 58.
1915 F, 658.
1917 A.
1919 A, 111.
1920 C, 272.
1924 C, 13.
1927 A, 35, fig.
Gregory, W. K. 1901 A, 143 (Hadrosaurus).
1920 A, 127.
Gregory and Camp 1918 A, 530.
Hatcher, J. B. 1902 C, 377, 386 (Hadrosaurus, Trachodon).
1905 B, 96 (Trachodon); 99 (Diclonius).
1907 A, 91, 300, pl. i; text-figs. 94, 95.
Hay, O. P. 1908 E, 357.
1910 C, 4.
Heilmann, G. 1913 B, 41, fig. 86.
1916 A, 85.
1926 A, 207, figs. 107, 116.
Heilprin, A. 1887 A, 169 (Hadrosaurus).
Hennig, E. 1912 B, 99.
Henning, C. L. 1914 A, 771.
Hoernes, R. 1886 A, 618 (Hadrosaurus).
Huene, F. 1909 B, 16 (Trachodon, Diclonius).
1912 G, 143.
1914 C, 583, pl. xii, fig. 2.
Jaekel, O. 1922 A, 91.
Janensch, W. 1925 B, 272.
Knowlton, F. H. 1909 A, 232.
Kräusel, R. 1922 A, 80.
Lambe, L. M. 1899 B, 186.
1903 B, 137.
1913 A, 21, pls. i-iii.
1914 B, pl. xvii.
1914 G, 384.
1917 B, 31.
1918 C, 135.
1920 A, 68, fig. 37 (Diclonius).
Lee, W. T. 1913 A, 532.
Lucas, F. A. 1904 C, 317.
Lull, R. S. 1903 A, 694.
1907 B, 300.
1910 A, 311.
1912 C, 675.
1914 D, 357.
1915 F, 836, 905.
1917 B, 297, 521.
1924 A, 240, 273, figs. 29, 34.
Lydekker, R. 1910 D, 459 (Hadrosaurus).
1913 A, 15.
1914 A, 640.
Matthew, W. D. 1907 D, 6 (Claosaurus).
1908 F, 89.
1909 F, 68.
1910 D, 550.
1910 F, 8.
1915 C, 28, 31, 80, figs. 27-30, 32.
1917 F, 419.
1920 D, 542.
Matthew and Brown 1915 A, 428.
Moodie, R. L. 1928 C, 1.
Nopcsa, F. 1900 A, 563 (Hadrosaurus).
1901 A, 266 (Hadrosaurus).
1901 B, 213 (Syn. of Hadrosaurus).
1902 C, 161, 168 (Hadrosaurus).
1904 A, 236, 237.
1905 A, 206.
1905 C, 292.
1917 A, 208.
1917 B, 344, 349.
1918 A, 186, 190.
1918 B, 236, 239.
1923 H, 106, 107.
1925 B, 11.
1928 A, 184.
Osborn, H. F. 1902 I, 9.
1909 A, 197.
1909 C, 160.
1912 G, 233, fig. 1.
1912 J, 18, fig. 13.
1912 K.
1917 B, 322, figs.
1924 B, 4, 5, 12, fig. 7.
Parks, W. A. 1920 B.
Pompeckj, J. F. 1921 A, 7.
1922 B, 87.
Rogers, A. F. 1924 A, 546.
Romer, A. S. 1927 C, 226, figs. 2, 7, 11, 20.
Schuchert, C. 1910 A, 596.
Schwarz, E. 1922 C, 91.
Seeley, H. G. 1888 G, 170 (Diclonius).
Seitz, A. L. L. 1907 A, 347.
Stanton, T. W. 1909 A.
1910 A, 64.
Stanton and Hatcher 1905 A, 38, 51, 54, 57, 59.
Steinmann, G. 1909 A, 79.
Sternberg, C. H. 1903 C, 871 (Diclonius).
1909 A, 116.
1909 C, 77 (Diclonius).
1911 A, 72.
1911 B, 219, 221, 222.
1917 A.
Sternberg, C. M. 1926 A, 104.
Tornier, G. 1913 B, 372.
Vallois, H. V. 1921 A, 973.
Van den Broeck, E. 1900 A, 102 (Hadrosaurus).
Versluys, J. 1910 B, 222 (Diclonius).
1922 A, 80, figs. 1-6.
1923 A, 1, fig. *a*.
Wegemann, C. H. 1918 A, 57.
Wegner, R. N. 1922 A, 480.
Whiteaves, J. F. 1901 A, 186.
Whitnal, H. O. 1925 A, 17, pl. iii.
Wieland, G. R. 1925 A, 602.
Williston, S. W. 1909 E, 194 (Hadrosaurus).
1925 A, 149, 175, 191, 197, figs. 122, 141, 156.
1925 B, 295.
Zittel and Broili 1911 A, 291.
1923 A, 358, fig. 470.
Zittel, Eastman, etc. 1902 A, 240.

Trachodon altidens Lambe.

Lambe, L. M. 1902 A, 76, pl. iv, figs. 2-4 [T. (Pteropelyx)].
Bowen, C. F. 1915 A, 142.
Brown, B. 1914 E, 379.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1905 B, 98.

Lambe, L. M. 1904 C, 24, 37, 49.
1912 A, 10.
1917 A, 121.
Matthew, W. D. 1916 A, 484.
Osborn, H. F. 1902 H, 675 [Pteropelyx (Didanodon)].
1902 I, 15 (Trachodon); 19 [Pteropelyx (Didanodon, new subg.)].
Upper Cretaceous (Belly River); Alberta.

Trachodon breviceps Marsh.

Hay, O. P. 1902 A, 503.
Bowen, C. F. 1915 A, 140, 151.
Gilmore, C. W. 1924 C, 26 (Hadrosaurus).
Hatcher, J. B. 1902 C, 382, 385 [T. (Hadrosaurus)].
1905 B, 97, 98.
Nopcsa, F. 1900 A, 557 (Hadrosaurus).
1901 A, 266 (Hadrosaurus).
1901 B, 212 (Hadrosaurus).
Osborn, H. F. 1902 I, 15.
Zittel and Broili 1911 A, 292, fig. 441.
1923 A, 358.
Zittel, Eastman, etc. 1902 A, 241, fig. 345.
Upper Cretaceous (Judith River); Montana.

Trachodon calamarius (Cope).

Hay, O. P. 1902 A, 503.
Bowen, C. F. 1915 A, 142, 150 (Diclonius).
Gilmore, C. W. 1924 C, 26 (Diclonius).
Hatcher, J. B. 1902 C, 381, 385 (Diclonius).
1905 B, 99 (Diclonius).
Lambe, L. M. 1918 C, 138 (Diclonius).
Nopcsa, F. 1901 B, 212 (Hadrosaurus calamarinus).
Osborn, H. F. 1902 I, 15 (Diclonius).
Sternberg, C. H. 1914 A, 134 (Diclonius).
Upper Cretaceous (Judith River); Montana.

Trachodon longiceps Marsh.

Hay, O. P. 1902 A, 504.
Bowen, C. F. 1915 A, 142.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1902 C, 378, 383, 385.
1907 A, 117.
Nopcsa, F. 1900 A, 557 (Hadrosaurus).
1901 B, 212 (Hadrosaurus).
Osborn, H. F. 1902 I, 15.
Upper Cretaceous (Lance); Wyoming.

Trachodon mirabilis Leidy.

Hay, O. P. 1902 A, 504.
Abel, O. 1912 F, 494, fig. 395.
1919 A, 636, fig. 502.
1922 A, 135 (Hadrosaurus).
Ballou, W. H. 1897 A, 19, fig. (Hadrosaurus).
Boule, M. 1891 A, 15, fig. 2 (Hadrosaurus).
Bowen, C. F. 1915 A, 140, 148, 150.
Brown, B. 1913 B, 404, figs. 7a, 8a.
1914 E, 358.
1916 B, 713.
1919 A, 408, 411 ("Trachodon").
Cope, E. D. 1891 N, 44, fig. 22 (Diclonius).
Gadow, H. 1901 B, 429 (Hadrosaurus).
Gilmore, C. W. 1915 F, 658.
1917 A.
1924 C, 19, 25 (Diclonius); 26 (Trachodon).
1924 E, 30 (This species?).
Hatcher, J. B. 1902 C, 377, 384, 386.
1905 B, 96, 98.
1907 A, 4, fig. 1.
Hay, O. P. 1910 C, 15 (Hadrosaurus).
Heilmann, G. 1913 B, 42, figs. 83-85.
Hooley, R. W. 1925 A, 4.
Huene, F. 1914 C, pl. xi, fig. 4; pl. xii, fig. 1.
Lambe, L. M. 1899 B, 184, 186.
1902 A, 77.
1917 C, 66 (Diclonius).
1918 C, 135.
1920 A, 66 (Diclonius).
Lull, R. S. 1908 B, 397, fig. 9.
Matthew, W. D. 1903 F, 4 (Diclonius).
1921 B, 187 ("Trachodon").
Nopcsa, F. 1900 A, 556, 563 (Hadrosaurus).
1901 B, 212 (Hadrosaurus).
1902 C, 168, fig. 9 (Hadrosaurus).
1904 A, 237.
1918 A, 188, figs. 5, 11.
Osborn, H. F. 1902 I, 15, 19.
1904 F, 19, 46 (Hadrosaurus).
1909 C, 160, figs. 1, 2.
1912 K, 34, pl. x.
Parks, W. A. 1922 B, 20, 25, 27.
Peale, A. C. 1912 A, 754.
Seeley, H. G. 1888 I, 239 (Diclonius).
Stanton and Hatcher 1905 A, 43, 50.
Sternberg, C. H. 1909 C, 275, fig. 46.
1914 A, 134.
1915 A, 133.
1917 A, 118.
Sternberg, C. M. 1926 B, 73.
1927 A, 67.
Tornier, G. 1913 B, 372.
Versluys, J. 1923 A, 6 (Diclonius).
Whiteaves, J. F. 1901 A, 184, 186.
Zittel and Broili 1911 A, 292, fig. 439.
1923 A, 357, fig. 467.
Zittel, Eastman, etc. 1902 A, 240, fig. 343.
Upper Cretaceous (Judith River); Montana: (Belly River); Alberta: (Lance); Wyoming.

Trachodon pentagonus (Cope).

Hay, O. P. 1902 A, 504.
Bowen, C. F. 1915 A, 142, 150 (Diclonius).
Gilmore, C. W. 1924 C, 26 (Diclonius).
Hatcher, J. B. 1902 C, 381, 385 (Diclonius).
1905 B, 99 (Diclonius).
Lambe, L. M. 1918 C, 138 (Diclonius).
Nopcsa, F. 1900 A, 557 (Diclonius. Syn. of Hadrosaurus breviceps).
Osborn, H. F. 1902 I, 15 (Diclonius).
Sternberg, C. H. 1914 A, 134 (Diclonius).
Upper Cretaceous (Judith River); Montana.

Trachodon perangulatus (Cope).

Hay, O. P. 1902 A, 504.
Bowen, C. F. 1915 A, 142, 150 (Diclonius).
Gilmore, C. W. 1924 C, 26 (Diclonius).
Hatcher, J. B. 1902 C, 381-385 (Diclonius).
1905 B, 99.
Lambe, L. M. 1908 C, 138 (Diclonius).
Nopcsa, F. 1901 B, 212 (Hadrosaurus).
Osborn, H. F. 1902 I, 15 (Diclonius).
Sternberg, C. H. 1914 A, 134 (Diclonius).
Upper Cretaceous (Judith River); Montana.

Trachodon selwyni Lambe.

Lambe, L. M. 1902 A, 69, pl. iii, figs. 2, 3 [T. (Pteropelyx)].
Abel, O. 1912 F, 493, fig. 376.
Bowen, C. F. 1915 A, 142, 151.
Brown, B. 1914 E, 379.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1905 B, 97, 98.
Lambe, L. M. 1904 C, 24, 37, 49.
1912 A, 9.
1914 C, 148 (Gryposaurus?).
Matthew, W. D. 1916 A, 484.
Osborn, H. F. 1902 H, 675.
1902 I, 15, 19.
Upper Cretaceous (Belly River); Alberta.

Trachodon sp. indet.

Anonymous 1914 A, 384.
Bowen, C. F. 1915 A, 142.
Brown, B. 1907 A, 842.
Gilmore, C. W. 1922 E, 360 ("Trachodon." This genus?).
1926 J, 28. Upper Cretaceous (Lance); Wyoming.
Stanton, T. W. 1910 B, 183. Upper Cretaceous (Hell Creek); Montana.
Williston, S. W. 1907 B, 53 (Claosaurus). Cretaceous (Rattlesnake); Texas.
Wrather, W. E. 1922 A, 354, figs. 1-5 ("dinosaur"). Lower Cretaceous (Glenrose); Texas.

THESPESIUS Leidy. Type *T. occidentalis* Leidy.

Hay, O. P. 1902 A, 502.
Abel, O. 1919 A, 637 (Claosaurus).
1922 A, 135 (Trachodon).
1922 C, 339.
Beecher, C. E. 1902 A, 313.
Gilmore, C. W. 1909 A, 267.
1915 F, 659.
1920 C, 272 (Trachodon).
1924 C, 13.
1924 F, 53.
1925 B, 408.
Hatcher, J. B. 1901 A, 129 (Claosaurus).
Lambe, L. M. 1920 A, 67, 68 (Claosaurus).
Lucas, F. A. 1901 F, 490, pl. vii.
1901 J, 44, 132, fig. 18.
1902 B, 149, fig.; 204, fig.
1902 C, 642, 646, pl. ii.
Nopcsa, F. 1901 A, 267 (Syn. of Hadrosaurus).
1901 B, 213 (Syn. of Hadrosaurus).
1928 A, 184.
Parks, W. A. 1920 B (Claosaurus).
Sternberg, C. M. 1926 A, 104.
1926 B, 74.
Whiteaves, J. F. 1901 A, 186.

Thespesius edmontoni Gilmore.

Gilmore, C. W. 1924 C, 14, pls. ii-v; text-figs. 6, 7.
1924 E, 34.
Lambe, L. M. 1913 A, 21-25, pls. ii, iii (Trachodon marginatus).
1914 B, 135, pl. xvii (Trachodon marginatus?).
Sternberg, C. H. 1918 A, 205 ("Trachodon").
Sternberg, C. M. 1926 A, 104.
1926 B, 78, 82.
Upper Cretaceous (Edmonton); Alberta.

Thespesius occidentalis Leidy.

In order to save space, names are contracted below, *Cla. ann.* for *Claosaurus annectens*, *Thes. occ.* for *Thespesius occidentalis*, and *Trach. ann.* for *Trachodon annectens*.

Hay, O. P. 1902 A, 502.
Abel, O. 1912 F, 279, fig. 202 (Cla. ann.).
1919 A, 638, figs. 504, 505, 507 (Trach. ann.).
1922 A, 135, fig. (Trach. ann.).
1922 C, 342, figs. 299*a*, *b* (Trach. ann.); 365, fig. 313 (Claosaurus); 342 (Trachodon).
Abel, O. 1925 A, 71, figs. 45, 46 (Trach. ann.).
Beecher, C. E. 1902 A, 311, pls. xli-xlv; text-figs. 4, 5 (Cla. ann.); 313 (Thes. occ.).
Bigot, A. 1897 A, 467, fig. 10 (Cla. ann.).
Bowen, C. F. 1915 A, 142 (Trach. ann.); 151 (Agathaumas milo).
Brown, B. 1912 A, 105, figs. 1, 2 (Trach. ann.).
1913 B, 403, fig. 6*a* (Trach. ann.).
1913 E, 926 (Trach. ann.).
1914 E, 358 (Trach. ann.).
1915 A, 142, 151.
1916 B, 713 (Trach. ann.).
Collier, A. J. 1918 A, 31 (Trach. ann.).
Cope, E. D. 1872 QQ, 2.
Cross, W. 1896 A, 227, 241 (Cla. ann.).
Dollo, L. 1906 C, 11, fig. 4 (Cla. ann.).
Gilmore, C. W. 1914 A, 66, fig. 34 (Trach. ann.).
1915 A, 600 (Trach. ann.).
1915 F, 658, 659 (Trach. ann. syn. of Thes. occ.).
1920 C, 271, pl. i, figs. 1, 2 (Trach. ann.).
1924 A, 68 (Thes. ann.).
1924 C, 13, 25 (Thes. ann.); 14, 26 (Cla. ann.).
1924 E, 37, 47 (Thes. ann.).
Hanson, F. B. 1920 C, 4 (Trach. ann.).
Hatcher, J. B. 1901 A, 130, pl. i, fig. 8; text-fig. 1 (Cla. ann.).
1902 C, 378, 384 (Thes. occ.); 383 (Cla. ann.); 384 (Trach. ann.).
1907 A, 67, 111, 112, 295 (Agathaumas milo).
Heilmann, G. 1913 B, 26, fig. 69 (Cla. ann.).
Hooley, R. W. 1917 A, 149 (Trach. ann.).
1925 A, 51 (Trach. ann.).
Hutchinson, H. N. 1910 A, 169, fig. 58 (Cla. ann.).
Joleaud, L. 1920 A, 492 (Trach. ann.).
Lambe, L. M. 1899 B, 188 (Cla. ann.).
1913 A, 22 (Trach. ann.).
1918 C, 139 (Cla.? ann.).
1920 A, 70 ("Claosaurus" ann.).
Lucas, F. A. 1904 C, 317, pls. lxxii, lxxiii; text-figs. 40-43 (Trach. ann.).
Lull, R. S. 1907 B, 168 (Hadrosaurus ann.).
1917 B, 521, pl. xii; text-fig. 162 (Trach. ann.).
Lydekker, R. 1913 A, 14 (Trach. ann.).
Matthew, W. D. 1909 F, 68 ("mummied dinosaur").
1915 C, 93, figs. 30-32 (Trach. ann.).

Merrill, G. P. 1907 A, 65, 66 (Cla. ann.); 78 (Thes. occ.); 79 (Trach. ann.).
Moodie, R. L. 1913 A, 252 (Trach. ann.).
1923 B, 192, 254, pl. xxix (Cla. ann.).
1927 A, 99, fig. 9 (Trach. ann.).
1928 C, 1, pls. i, ii, iv-vi (Trach. ann.).
Nopcsa, F. 1900 A, 557 (Cla. ann.).
1901 B, 211 (Cla. ann.); 212 (Hadrosaurus).
Osborn, H. F. 1902 I, 15, 19 (Thes. occ.); 15 (Cla. ann.).
1909 B, 793 (Trach. ann.).
1911 B, 7, figs. 1-4 (Trach. ann.).
1912 K, 34, pls. v-ix; text-figs. 1-9 (Trach. ann.).
Parks, W. A. 1920 B (Cla. ann.).
1922 B, 20, 25, 27, 29 (Cla. ann.).
Sauvage, H. E. 1901 B, 10 (Cla. ann.).
Shimer, H. W. 1914 A, 108, fig. 2 (Trach. ann.).
Sternberg, C. H. 1909 D, 753 (Trach. ann.).
1909 E, 128, fig. ("Trachodon").
1914 A, 135 (Trach. ann.).
1917 A, 3, 25, 40, 119, 149, figs. 1, 2, 8 (Trach. ann.).
Sternberg, C. M. 1925 A, 108 (T. ann.).
1926 B, 74.
Versluys, J. 1910 B, 222, fig. U (Cla. ann.); 229 (Thes. occ.).
1922 A, 85 ("Trachodon").
1923 A, 1-19, pls. i-iv (Trach. ann.).
Zittel, Eastman, etc. 1902 A, 241 (Cla. ann.).
Upper Cretaceous (Grand River); North Dakota: (Lance); Wyoming, Montana, South Dakota: (Denver or Arapahoe); Colorado.

Thespesius saskatchewanensis Sternberg.

Sternberg, C. M. 1926 B, 73, pls. xv-xvii; text-fig. 3.
Upper Cretaceous (Lance); Saskatchewan.

Thespesius sp. indet.

Gilmore, C. W. 1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.

EDMONTOSAURUS Lambe. Type *E. regalis* Lambe.

Lambe, L. M. 1917 C, 66.
Gilmore, C. W. 1924 E, 37, 46.
1924 F, 53.
Lambe, L. M. 1918 C, 137, 138.
1920 A, 1, fig. 37.
Nopcsa, F. 1923 H, 105, 106.
1928 A, 184.
Shaner, R. F. 1926 A, 362.

Edmontosaurus regalis Lambe.

Lambe, L. M. 1917 C, 66, pls. ii, iii.
Gilmore, C. W. 1924 C, 26.
1924 E, 34.
Lambe, L. M. 1920 A, 1, figs. 1-35.
Sternberg, C. M. 1926 A, 104.
1926 B, 78.
Upper Cretaceous (Edmonton); Alberta.

KRITOSAURUS Brown. Type *K. navajovius* Brown.

Brown, B. 1910 A, 269.
Abel, O. 1922 A, 137.
Anonymous 1922 A, 92.
Brown, B. 1914 C, 561, 564 (Corythosaurus a syn.).
1914 E, 377.
1916 A, 708.
1916 B, 716, pl. xxii, fig. 3 (Kritosaurus); 710 (Stephanosaurus).
Gilmore, C. W. 1916 D, 284.
1917 A (Corythosaurus a syn.).
Gregory, W. K. 1914 C, 145 (Gryposaurus; type *G. notabilis*).
1915 B, 118 (Gryposaurus).
1917 A, 118 (Gryposaurus).
1920 A, 127, fig. 45 (Kritosaurus, Stephanosaurus).
Lambe, L. M. 1914 D, 17 (Stephanosaurus).
1915 B, 118 (Trachodon).
1918 C, 136, 138 (Gryposaurus, Kritosaurus, Stephanosaurus).
1920 A, 68, fig. 36 (Gryposaurus, Kritosaurus); 68, 74, fig. 39 (Stephanosaurus).
1920 B, 40 (Gryposaurus); 40, 43 (Stephanosaurus).
Lull, R. S. 1917 B, 523, fig. 163 (Gryposaurus).
1924 A, 272 (Kritosaurus); 272, fig. 34 (Gryposaurus).
Matthew, W. D. 1915 C, 76.
1920 D, 542 (Kritosaurus, Stephanosaurus).
Nopcsa, F. 1917 A, 208.
1918 A, 187, 194.
1923 D, 105.
1923 E, 1046.
1923 H, 105 (Stephanosaurus); 106 (Gryposaurus, Kritosaurus).
1928 A, 184.
Osborn, H. F. 1917 B, 223, fig.
Parks, W. A. 1920 A, 51 (Gryposaurus, Kritosaurus).
1920 B, 9 (Gryposaurus, Kritosaurus).
1922 B, 8 (Stephanosaurus).
1923 A, 130 (Stephanosaurus).
1923 B, 6 (Stephanosaurus).
Romer, A. S. 1927 C, 226.
Sinclair and Granger 1914 A, 303.
Sternberg, C. H. 1917 A, 68, 72, fig. 24 (Gryposaurus).
Williston, S. W. 1925 A, 87, fig. 70.
1925 B, 295 (Kritosaurus, Gryposaurus, Stephanosaurus).
Zittel and Broili 1923 A, 357, 359 (Kritosaurus, Gryposaurus).

Kritosaurus incurvimanus Parks.

Parks, W. A. 1920 A, 51, figs. 1-13.
Gilmore, C. W. 1924 C, 22, 26.
1924 E, 30.
1924 F, 55.

Parks, W. A. 1920 B, 9, pls. i-vii; text-figs. 1-22.
1922 B, 20-30.
Upper Cretaceous (Belly River); Alberta.

Kritosaurus marginatus Lambe.

Lambe, L. M. 1902 A, 71, pl. iii, fig. 1; pl. iv, figs. 1, 5, 6; pls. v-x; text-fig. 23 [Trachodon (Pteropelyx)].
Abel, O. 1912 F, 493, fig. 375 (Trachodon).
Bach, R. 1914 A, 347, fig. (Trachodon).
Bowen, C. F. 1915 A, 142, 150 (Trachodon).
Brown, B. 1914 C, 559 (Trachodon; in part).
1914 E, 379 (Trachodon).
1916 B, 710 (Trachodon).
Gilmore, C. W. 1917 A, 4, 38, 41, fig. 54 (Stephanosaurus; this species?).
1924 C, 26 (Trachodon, Stephanosaurus).
1924 E, 30 (Stephanosaurus); 34 (Kritosaurus).
Hatcher, J. B. 1905 B, 97, 98 (Trachodon).
Lambe, L. M. 1904 C, 24, 37, 49 (Trachodon).
1912 A, 10 (Trachodon).
1914 B, 133, pls. xv, xvi (Trachodon).
1914 D, 19, pl. i (Stephanosaurus).
1914 F, 293, 297 (Stephanosaurus).
1916 A, 193 (Stephanosaurus).
1920 A, 67-76 (Stephanosaurus, in part).
Matthew, W. D. 1916 A, 484 (Trachodon).
Osborn, H. F. 1902 I, 15 (Trachodon); 19 (Pteropelyx).
Parks, W. A. 1920 B (Stephanosaurus).
1923 B, 6 (Trachodon).
Shimer, H. W. 1914 A, 108, fig. 1 (Stephanosaurus).
Sternberg, C. H. 1909 C, 77, fig. 13 (Trachodon).
1915 A, 132, 133 (Stephanosaurus).
1917 A, 61, figs. 16, 17 (Stephanosaurus).
Upper Cretaceous (Belly River); Alberta: (Two Medicine); Montana.

Kritosaurus navajovius Brown.

Brown, B. 1910 A, 269, pls. xxviii-xxix; text-figs. 2-7.
Abel, O. 1916 A, 469, 496, fig. 8.
Brown, B. 1914 E, 380.
Gilmore, C. W. 1916 D, 281, pl. lxxii, fig. A; pl. lxxiii, figs. 3, 5.
1920 A, 8.
1922 A, 6.
1924 C, 26.
1924 F, 53.
Knowlton, F. H. 1922 A, 71 (K. navijovicus).
Reeside, J. B. 1924 A, 31.
Sinclair and Granger 1914 A, 303.
Versluys, J. 1910 B, 224 (Nectosaurus, *errore*).
Upper Cretaceous (Kirtland, Ojo Alamo); New Mexico.

Kritosaurus notabilis (Lambe).

Lambe, L. M. 1914 C, 145, pl. xviii (Gryposaurus).
Anonymous 1914 A, 386 (Gryposaurus).
Brown, B. 1914 E, 379.
Gilmore, C. W. 1916 D, 283, pl. lxxii, fig. B (Gryposaurus).
1924 C, 26 (Gryposaurus).
1924 E, 31, 34.
Henning, C. L. 1914 A, 774, figs. 7, 9 (Gryposaurus).
Lambe, L. M. 1914 F, 294, 296, 297 (Gryposaurus).
1914 G, 386 (Gryposaurus).
1915 B, 117 (Gryposaurus).
Lydekker, R. 1915 C, 630 (G. mirabilis).
Matthew, W. D. 1916 A, 484.
Parks, W. A. 1920 A, 52.
1920 B.
Sternberg, C. H. 1914 A, 134 (Gryposaurus).
1915 A, 133 (Gryposaurus).
1918 A, 209 ("Grypsosaurus").
Sternberg, C. M. 1926 B, 78.
Upper Cretaceous (Belly River); Alberta.

Kritosaurus sp. indet.

Reeside, J. B. 1924 A, 23. Upper Cretaceous (Fruitland); New Mexico.

CIONODON Cope. Type *C. arctatus* Cope.

Hay, O. P. 1902 A, 504.
Cope, E. D. 1880 U, 147.
Hatcher, J. B. 1902 C, 381, 385.
1905 B, 99.
1907 A, 296.
Hoernes, R. 1886 A, 619.
Hoffmann, C. K. 1890 B, 1315.
Huene, F. 1909 B, 17.
Nopcsa, F. 1901 A, 265.
Osborn, H. F. 1902 I, 19.
Peale, A. C. 1876 A, 153.
Whiteaves, J. F. 1901 A, 187 (Cinodon).

Cionodon arctatus Cope.

Hay, O. P. 1902 A, 504.
Bowen, C. F. 1915 A, 142.
Cope, E. D. 1874 B, 433, 448, 449.
Cross, W. 1896 A, 244.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1902 C, 381, 385.
Nopcsa, F. 1900 A, 557, 572.
Osborn, H. F. 1902 I, 15.
Upper Cretaceous (Denver or Arapahoe); Colorado.

Cionodon stenopsis Cope.

Hay, O. P. 1902 A, 504.
Bowen, C. F. 1915 A, 142.
Dawson, G. M. 1884 A, 38.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1905 B, 99.
1902 C, 381, 385.
Lambe, L. M. 1904 C, 24, 37, 49.
Nopcsa, F. 1900 A, 557.
Osborn, H. F. 1902 I, 15.
Upper Cretaceous (Two Medicine); Montana.

CLAOSAURUS Marsh. Type *Hadrosaurus agilis* Marsh.

Marsh, O. C. 1890 C, 423.
Hay, O. P. 1902 A, 502 (Thespesius, in part).
Abel, O. 1909 F, 461.
1911 A, 161.
Beddard, F. E. 1898 A, 156.
Boule, M. 1902 B, 908, fig. 14.
Brown, B. 1907 A, 392.
1914 C, 565.
Case, E. C. 1898 C, 642.
Darton, N. H. 1908 A, 462 (Cleosaurus).
Douglass, E. 1902 A, 31.
1902 C, 211, 212.
Du Toit, P. J. 1913 A, 248.
Gadow, H. 1901 B, 429.
Gilmore, C. W. 1915 F, 658.
1917 A.
Gregory, W. K. 1901 A, 142.
Heilmann, G. 1913 A, 57, fig. 46.
Hennig, E. 1912 B, 99.
1924 A, 146.
Hooley, R. W. 1925 A, 4.
Huene, F. 1904 A, 323.
1906 B, 152, fig. 95.
1906 C, 337.
1908 B, 289, 359.
1909 B, 16.
Hutchinson, H. N. 1910 A, 168, pl. xxiv.
Lambe, L. M. 1918 C, 136, 139.
1920 A, 68.
Lebedinsky, N. G. 1913 A, 768.
1913 B, 197.
Lull, R. S. 1910 A, 11.
1924 A, 241.
Lydekker, R. 1910 D, 459.
Nopcsa, F. 1900 A, 560.
1902 C, 161.
1904 A, 237.
1905 C, 291.
1911 B, 8.
1917 A, 206.
Nopcsa, F. 1917 B, 343.
1918 A, 187, 190, 196.
1918 B, 239.
1928 A, 184.
Plieninger, F. 1906 A, 408.
Schuchert, C. 1905 B, 133.
1915 A, 905.
Steinmann, G. 1909 A, 79.
Sternberg, C. H. 1917 A, 96.
Van den Broeck, E. 1900 A, 92.
Versluys, J. 1910 B, 223.
1912 A, 494.
Whiteaves, J. F. 1901 A, 186.
Williston, S. W. 1909 A, 398.
Zittel and Broili 1911 A, 291.
1923 A, 358.
Zittel, Eastman, etc. 1902 A, 241.

Claosaurus? affinis Wieland.

Wieland, G. R. 1903 A, 216 (Name only).
Upper Cretaceous (Pierre); South Dakota.

Claosaurus agilis Marsh.

Hay, O. P. 1902 A, 502 (Thespesius).
Beecher, C. E. 1902 A, 313.
Brown, B. 1910 A, 373.
Eisler, P. 1895 A, 53.
Gilmore, C. W. 1915 F, 658.
1924 C, 26 (Hadrosaurus).
Hatcher, J. B. 1901 C, 341.
1902 C, 383, 385.
Lambe, L. M. 1918 C, 136, 139.
Lull, R. S. 1910 A, 18.
Nopcsa, F. 1900 A, 557.
Osborn, H. F. 1902 I, 15, 19.
Sternberg, C. M. 1926 B, 74.
Wieland, G. R. 1909 B, 250 (Hadrosaurus).
Williston, S. W. 1902 E, 253 (Hadrosaurus).
Upper Cretaceous (Niobrara); Kansas.

HYPSIBEMA Cope. Type *H. crassicauda* Cope.

Hay, O. P. 1902 A, 497.
Hatcher, J. B. 1902 C, 381.
Huene, F. 1909 B, 17 (Hypsibæma).
Nopcsa, F. 1901 A, 266.
Zittel and Broili 1911 A, 293 (Hypsibæma).

Hypsibema crassicauda Cope.

Hay, O. P. 1902 A, 497.
Hatcher, J. B. 1902 C, 381.
Nopcsa, F. 1900 A, 557.
Stephenson, L. W. 1912 A, 120.
Upper Cretaceous (Black Creek); North Carolina.

DYSGANUS Cope. Type *D. encaustus* Cope.

Hay, O. P. 1902 A, 504.
Bowen, C. F. 1915 A, 149, 150.
Cope, E. D. 1880 U, 147.
Cross, W. 1896 A, 218, 238.
Hatcher, J. B. 1902 C, 377.
1905 B, 90.
1907 A, 67, 296.
Huene, F. 1909 B, 18.
Lull, R. S. 1907 B, 166, 296.
Nopcsa, F. 1901 A, 270.
Sternberg, C. H. 1903 C, 871.

Dysganus bicarinatus Cope.

Hay, O. P. 1902 A, 504.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1907 A, 68, 296.
Lull, R. S. 1907 B, 296.
Osborn, H. F. 1902 I, 14.
Sternberg, C. H. 1914 A, 134.
Upper Cretaceous (Judith River); Montana.

Dysganus encaustus Cope.

Hay, O. P. 1902 A, 505.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1907 A, 67, 296.
Lull, R. S. 1907 B, 296.
Osborn, H. F. 1902 I, 14.
Sternberg, C. H. 1914 A, 134.
Upper Cretaceous (Judith River); Montana.

Dysganus haydenianus Cope.

Hay, O. P. 1902 A, 505.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1907 A, 68, 296.
Lull, R. S. 1907 B, 296.
Osborn, H. F. 1902 I, 14.
Sternberg, C. H. 1914 A, 134.
Upper Cretaceous (Judith River); Montana.

Dysganus peiganus Cope.

Hay, O. P. 1902 A, 505.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1907 A, 69, 296.
Lull, R. S. 1907 B, 296.
Osborn, H. F. 1902 I, 14.
Sternberg, C. H. 1914 A, 134.
Upper Cretaceous (Judith River); Montana.

PTEROPELYX Cope. Type *P. grallipes* Cope.

Hay, O. P. 1902 A, 503.
Gilmore, C. W. 1917 A, 6.
Henning, C. L. 1914 A, 771.
Nopcsa, F. 1901 A, 265 (Syn. of Claosaurus).
1901 B, 211 (Syn. of Claosaurus).
Osborn, H. F. 1902 I, 19.

Pteropelyx grallipes Cope.

Hay, O. P. 1902 A, 503.
Bowen, C. F. 1915 A, 142.
Gilmore, C. W. 1917 A, 42.
1924 C, 26.
Hatcher, J. B. 1902 C, 382, 385.
1905 B, 98.
Lambe, L. M. 1902 A, 77.
Nopcsa, F. 1901 B, 211 (Syn. of Claosaurus annectens).
Osborn, H. F. 1902 H, 675.
1902 I, 15, 19.
Upper Cretaceous (Judith River); Montana.

ORNITHOTARSUS Cope. Type *O. immanis* Cope.

Hay, O. P. 1902 A, 505.
Huene, F. 1909 B, 16.
Nopcsa, F. 1901 A, 266.
Seeley, H. G. 1894 D, 417.

Ornithotarsus immanis Cope.

Hay, O. P. 1902 A, 505.
Cope, E. D. 1869 P, 121.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1902 C, 385.
Huxley, T. H. 1870 G, 480.
Nopcsa, F. 1900 A, 557.
Woolman, L. 1897 C, 249, pl. xv.
Upper Cretaceous (Matawan); New Jersey.

CLAORHYNCHUS Cope. Type *C. trihedrus* Cope.

Hay, O. P. 1902 A, 500.
Hatcher, J. B. 1907 A, 114, 296, 298.
Hay, O. P. 1903 D, 117.
Huene, F. 1909 B, 16.
Lull, R. S. 1907 B, 166, 296.
Osborn, H. F. 1902 I, 19.
A genus of uncertain position.

Claorhynchus trihedrus Cope.

Hay, O. P. 1902 A, 500.
Bowen, C. F. 1915 A, 140.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1902 C, 382, 385.
1905 B, 96.
1907 A, 114, 296.
Lull, R. S. 1907 B, 166, 296.
Osborn, H. F. 1902 I, 15.
Upper Cretaceous (Laramie); South Dakota?: (Judith?); Montana?

PNEUMATOARTHRUS Cope. Type *P. peloreus* Cope.

Hay, O. P. 1902 A, 505.
Nopcsa, F. 1901 B, 213 (Syn. of Ornithotarsus).

Pneumatoarthrus peloreus Cope.

Hay, O. P. 1902 A, 505.
Gilmore, C. W. 1924 C, 26.
Upper Cretaceous (Navesink?); New Jersey.

SAUROLOPHINÆ Brown.

Brown, B. 1914 C, 565.
1916 B, 712.
Gilmore, C. W. 1920 A, 64.
1924 E, 34.
Lambe, L. M. 1918 C, 138.
1920 A, 67.
Lydekker, R. 1915 C, 630.
Nopcsa, F. 1917 A, 208 (Saurolophidæ).
1928 A, 185.
Parks, W. A. 1922 B, 6.
1923 B, 6.

PROSAUROLOPHUS Brown. Type *P. maximus* Brown.

Brown, B. 1916 A, 701.
Gilmore, C. W. 1924 F, 53.
Lambe, L. M. 1917 C, 66.
Lambe, L. M. 1918 C, 136, 138.
1920 A, 68, fig. 38.
1920 B, 40.

Matthew, W. D. 1920 D, 542.
Nopcsa, F. 1923 H, 106.
1928 A, 185.
Sternberg, C. H. 1917 A, 66, 86.
Williston, S. W. 1925 B, 295.

Prosaurolophus maximus Brown.

Brown, B. 1916 A, 701, figs. 1, 3, 5.
Gilmore, C. W. 1924 C, 26.
1924 E, 34.
Lambe, L. M. 1920 A, 71.
Parks, W. A. 1924 C, 26, pl. v.
Sternberg, C. H. 1917 A, 66, 68 ("Prosaurolophus").
1918 A, 209 ("Prosaurolophus").
Upper Cretaceous (Belly River); Alberta.

PROCHENEOSAURUS Matthew.

Matthew, W. D. 1920 D, 542 (Not well defined).

Procheneosaurus sp. indet.

Matthew, W. D. 1920 D, 542. (No specific name.) Upper Cretaceous (Belly River or Edmonton); Alberta.

SAUROLOPHUS Brown. Type *S. osborni* Brown.

Brown, B. 1912 B, 131.
Abel, O. 1916 A, 496, fig. 8.
1919 A, 634.
1922 A, 143.
Brown, B. 1913 A, 387.
1913 B, 395, 396.
1913 D, 140, pl.
1914 A, 543.
1914 C, 561, 565.
1914 E, 374, 377.
1916 A, 701.
Eastman, C. R. 1914 B, 688.
1917 B, 656.
Eastman, Gregory and Matthew 1917 A, 119.
Gilmore, C. W. 1915 D, 411, 488.
1917 A.
Lambe, L. M. 1918 C, 138.
1920 A, 68, fig. 38.
Lull, R. S. 1917 B, 522, fig. 163.
1924 A, 271, fig. 34.
Matthew, W. D. 1914 E, 58.
1915 C, 76, 83, 98, figs. 25, 34.
1920 D, 542.
Nopcsa, F. 1915 A, 388.
1917 A, 208.
1917 B, 350.
1918 A, 186.
1918 B, 239.
1923 H, 105, 106, pl. v, fig. 12.
Nopcsa, F. 1926 A, 636.
1928 A, 185.
Parks, W. A. 1922 B.
Romer, A. S. 1927 C, 226, 233, fig. 2.
Williston, S. W. 1925 B, 295.
Zittel and Broili 1923 A, 359.

Saurolophus osborni Brown.

Brown, B. 1912 B, 131, pls. x, xi; text-figs. 1-4.
Abel, O. 1919 A, 632, figs. 498, 499.
Brown, B. 1913 A, 388, pls. lxii, lxiii; text-fig. 1.
1916 A, 703, figs. 2, 4.
1919 A, 411, 423, fig. ("Saurolophus").
Gilmore, C. W. 1917 A.
1924 C, 26.
1924 E, 30, 34.
1924 F, 60.
Gregory, W. K. 1913 E, 13, fig. 10.
Heilmann, G. 1926 A, 144, 147, figs. 105, 107.
Lydekker, R. 1913 A, 15.
1914 A, 639.
Matthew, W. D. 1912 D, 219 ("Saurolophus").
1915 C, 98, fig. 34 ("Saurolophus").
Nopcsa, F. 1918 A, 188, figs. 4, 12.
Parks, W. A. 1922 A, 6, 7, 20-30.
Sternberg, C. M. 1926 A, 104.
Versluys, J. 1923 A, 4.
Upper Cretaceous (Edmonton); Alberta.

CHENEOSAURUS Lambe. Type *C. tolmanensis* Lambe.

Lambe, L. M. 1917 A, 117.
Gilmore, C. W. 1924 E, 36, 41, 47.
1924 F, 52, 57, 64.
Lambe, L. M. 1918 C, 137, 138.
1920 A, 68, fig. 39.
Nopcsa, F. 1923 H, 106.
1928 A, 185.
Williston, S. W. 1925 B, 295.

Cheneosaurus tolmanensis Lambe.

Lambe, L. M. 1917 A, 117, pls. vi, vii.
Abel, O. 1924 A, 715, fig. 11.
Gilmore, C. W. 1924 C, 26.
1924 E, 34.
Sternberg, C. M. 1926 A, 104.
Upper Cretaceous (Edmonton); Alberta.

LAMBEOSAURINÆ Parks.

Parks, W. A. 1923 B, 6.
Gilmore, C. W. 1924 E, 34, 42, 47.
1924 F, 57.
Lambe, L. M. 1920 A, 67 (Stephanosaurinæ).
Nopcsa, F. 1928 A, 185.

HYPACROSAURUS Brown. Type *H. altispinus* Brown.

Brown, B. 1913 B, 395.
Abel, O. 1919 A, 635.
Brown, B. 1914 C, 565.
1914 E, 374, 377.
Brown, B. 1916 B, 710.
Eastman, C. R. 1914 B, 688 ("Hypærosaurus," misprint).
Gilmore, C. W. 1914 B, 10.

Gilmore, C. W. 1916 D, 284.
1917 A.
1924 E, 47.
1924 F, 49.
Lambe, L. M. 1917 C, 66.
1918 C, 138.
1920 A, 68.
Lydekker, R. 1914 A, 640.
Moodie, R. L. 1923 B, 123.
Nopcsa, F. 1917 A, 208.
1918 A, 187, 190.
1923 H, 105.
1928 A, 185.
Romer, A. S. 1927 C, 233, 241, figs. 2, 7.
Shaner, R. F. 1926 A, 365.
Sternberg, C. M. 1926 A, 103.
Stromer, E. 1915 B, 19.
Williston, S. W. 1925 B, 295.
Zittel and Broili 1923 A, 359.

Hypacrosaurus altispinus Brown.

Brown, B. 1913 B, 395, figs. 1-5, 6*b*, 7*b*, 8*b*.
1914 E, 379.
1919 A, 421 ("Hypacrosaurus").
Gilmore, C. W. 1914 B, 10.
1914 D, 19 ("duck-billed dinosaur").
1916 D, 284 ("Hypacrosaurus").
1917 A, 3, 38, figs. 48-53 (This species?).
1924 C, 26.
1924 E, 34, 43.
1924 F, 49, pls. xi, xii; text-figs. 13-17.
Lydekker, R. 1914 A, 639, figs. 2, 3.
Matthew, W. D. 1916 A, 484.
Nopcsa, F. 1918 A, 195.
Parks, W. A. 1922 B, 25, 27, 30.
Sternberg, C. M. 1926 A, 104.

Upper Cretaceous (Edmonton); Alberta: (Two Medicine); Montana.

CORYTHOSAURUS Brown. Type *C. casuarius* Brown.

Brown, B. 1914 C, 560, 565.
Abel, O. 1916 A, 496.
1919 A, 635.
1926 F, (39).
Anonymous 1922 A, 92.
Brown, B. 1916 B, 710.
Gilmore, C. W. 1915 D, 411, 488.
1923 B, 46.
1924 C, 23.
1924 E, 30.
1924 F, 49.
1927 B, 95, fig. 1.
Gregory, W. K. 1920 A, 127.
Heilmann, G. 1926 A, 22.
Lambe, L. M. 1918 C, 138.
1920 A, 68, fig. 39.
1920 B, 40.
Lull, R. S. 1917 B, 522, fig. 163.
1924 A, 271, fig. 34.
Matthew, W. D. 1915 C, 76, 83, 98, 118.
1920 D, 542.
Matthew and Brown 1915 A, 427.
Nopcsa, F. 1917 A, 208.
1918 A, 190.
1923 E, 1046.
1923 H, 12, 13, 105, 106, 108.
1926 A, 636.
1928 A, 185.
Osborn, H. F. 1917 B, 223, fig.
Parks, W. A. 1922 B, 6.
1923 A, 130.
Romer, A. S. 1923 A, 143, fig. 2.
1927 C, 226.
Shaner, R. F. 1926 A, 362.
Sternberg, C. H. 1917 A, 86.
Williston, S. W. 1925 B, 295.
Zittel and Broili 1923 A, 359.

Corythosaurus casuarius Brown.

Brown, B. 1914 C, 559, 560, pl. xli.
Abel, O. 1919 A, 634, fig. 500.
1922 A, 137.
Abel, O. 1922 C, 338, 344, fig. 295.
1924 A, 714, fig.
Brown, B. 1916 B, 710, pls. xiii-xxii.
1919 A, 419, fig. ("Corythosaurus").
Gilmore, C. W. 1923 B, 46.
1924 C, 26.
1924 E, 29, 30, 36.
Lambe, L. M. 1915 B, 117 (Syn. of Stephanosaurus marginatus).
Lydekker, R. 1915 C, 630, fig. 5 (Stephanosaurus).
Matthew, W. D. 1916 A, 484.
1920 D, 543, fig.
Moodie, R. L. 1927 A, 91, fig. 1.
Nopcsa, F. 1918 A, 188, 195, fig. 6.
Parks, W. A. 1922 B, 20.
1923 B, 7, pl. ii, fig. 3.
Sternberg, C. H. 1917 A, 61, 202, frontispiece, fig. 45.
1918 A, 208, 211.
Vallois, H. V. 1921 A, 972.
Zittel and Broili 1923 A, 359, fig. 471.

Upper Cretaceous (Belly River); Alberta.

Corythosaurus excavatus Gilmore.

Gilmore, C. W. 1923 B, 46, pl. i, fig. 1; text-fig. 1.
1924 C, 26.
1924 E, 34, 36.
1924 F, 51.

Upper Cretaceous (Belly River); Alberta.

Corythosaurus intermedius Parks.

Parks, W. A. 1923 B, 1-57, pls. i-v; 13 text-figs.
Abel, O. 1924 A, 714, fig.
Gilmore, C. W. 1924 C, 26.
1924 E, 34.
Parks, W. A. 1923 A, 130 (Stephanosaurus; inadequate description).

Upper Cretaceous (Belly River); Alberta. Possibly the same as *C. excavatus*.

LAMBEOSAURUS Parks. Type *L. lambei* Parks.

Parks, W. A. 1923 B, 7.
Abel, O. 1926 F, (39).
Gilmore, C. W. 1924 E, 29.
Nopcsa, F. 1928 A, 185.
Shaner, R. F. 1926 A, 362 (Lambiosaurus).

Lambeosaurus lambei Parks.

Parks, W. A. 1923 B, 7, pl. ii, fig. 2.
Abel, O. 1924 A, 713, fig. 11.
Brown, B. 1914 C, 559 (Corythosaurus? sp. indet., in part).
Gilmore, C. W. 1924 C, 26.
1924 E, 29-48, pls. vi-ix; text-figs. 9-12.
1924 F, 51.
Lambe, L. M. 1914 D, 17-20, pl. i (Stephanosaurus marginatus, in part).
1920 A, 68, 74-76, fig. 39, H. (Stephanosaurus marginatus).
Sternberg, C. M. 1926 B, 80.
Upper Cretaceous (Belly River); Alberta.

Lambeosaurus sp. indet.

Gilmore, C. W. 1924 E, 37, fig. 8. Upper Cretaceous (Belly River); Alberta.

PARASAUROLOPHUS Parks. Type *P. walkeri* Parks.

Parks, W. A. 1922 B, 5.
Abel, O. 1926 F, (39).
Gilmore, C. W. 1924 E, 41.
1924 F, 57.
Lull, R. S. 1924 A, 272, fig. 34.
Nopcsa, F. 1926 A, 636.
1928 A, 185.
Parks, W. A. 1923 B, 6.
Romer, A. S. 1927 C, 226.
Shaner, R. F. 1926 A, 365.

Parasaurolophus walkeri Parks.

Parks, W. A. 1922 B, 5, pls. i-ix; text-figs. 1-9.
Abel, O. 1924 A, 712, figs. 10-12.
Gilmore, C. W. 1924 C, 22, 26.
1924 E, 30, 41.
Upper Cretaceous (Belly River); Alberta.

IGUANODONTIDÆ.

Hay, O. P. 1902 A, 502 (Iguanodontidæ).
Abel, O. 1919 A, 623 (Iguanodontinæ).
Arldt, T. 1907 D, 271, 333 (Iguanodontidæ).
1909 A, 263 ("iguanodontiden").
Ballerstedt, M. 1914 A, 48 (Iguanodon).
Bertrand, C. E. 1903 A, 9 ("iguanodons").
1904 A, 121 ("iguanodons").
Brown, B. 1914 B, 545 (Iguanodontidæ).
Dames, W. 1883 C, 272, 399 (Iguanodontidæ).
De Pauw, L. F. 1902 A, 87, pls. i-vi (Iguanodon).
Dollo, L. 1906 C, 1 ("iguanodons").
1919 A, 23 ("iguanodons").
1923 B, 67 ("iguanodons").
Drevermann, F. 1911 C, 97, pl. (Iguanodon).
Gervais, P. 1859 A, 466 ("iguanodontidés").
Günther, A. 1886 A, 143 (Iguanodontidæ).
Huene, F. 1909 B, 16 (Iguanodontidæ).
Huxley, T. H. 1869 K, 146 (Iguanodontidæ).
1870 G, 470 (Iguanodon).
1870 H, 489, 490 (Iguanodontidæ).
Jaekel, O. 1914 A, 197 ("iguanodontiden").
Lucas, F. A. 1904 C, 318 (Iguanodontidæ).
Mantell, G. A. 1834 A, 63 (Iguanodon).
1844 A, 739 (Iguanodon).
1848 D, 51 (Iguanodon).
Matthew, W. D. 1914 B, 387 (Iguanodontidæ).
1921 D, 211 (Iguanodontidæ).
Nopcsa, F. 1901 A, 262 (Iguanodontidæ).
1901 B, 208 (Iguanodontidæ).
1902 C, 149 ("kalodontiden").
1923 H, 108, 175 (Kalodontidæ).
Owen, R. 1842 F, 81 ("iguanodonts").
Reis, O. M. 1922 A, 85-90, fig. (Iguanodon).
Romer, A. S. 1927 C, 226.
Seeley, H. G. 1888 J, 698 (Iguanodon).
1899 B, 68 ("iguanodont reptiles").
Steinmann G. 1907 A, 451 (Iguanodontidæ).
Tornier, G. 1913 B, 370 (Iguanodontidæ).
Vallois, H. V. 1921 A, 972 ("iguanodons").
Zittel and Broili 1911 A, 289 (Iguanodontidæ)
Zittel, Eastman, etc. 1902 A, 237 (Iguanodontidæ).

At present no North American species are referred to this family.

Superfamily CERATOPSOIDÆ, new form.

Unless otherwise indicated the writers, as quoted, employ the name Ceratopsia.

Hay, O. P. 1902 A, 497 (Ceratopsoidea).
Abel, O. 1924 A, 712 ("ceratopsiden").
Arldt, T. 1907 D, 644.
1909 A, 263 ("ceratopsier").
Berkey, C. P. 1923 A, 4.
Brown, B. 1906 A, 297.
1907 A, 841.
1917 A, 284.
1917 B, 135.
Case, E. C. 1897 D, 88.
Cross, W. 1909 A, 44.
Depéret, C. 1907 B ("cératopsidés").
1912 A, 705.
Du Toit, P. J. 1913 A, 247 ("ceratopsiden").
Eimer, G. H. T. 1901 A, 131.
Gadow, H. 1896 C, 205.
1901 B, 430.
Gilmore, C. W. 1914 B.
1915 F, 659 ("ceratopsians").
1917 A, 37.
1922 C, 381, 384.
Granger and Gregory 1923 A, 4.
Gregory, W. K. 1920 A, 127.
Gregory and Mook 1925 A.
Hatcher, J. B. 1905 A, 413.
1905 B, 89 (Ceratapsoidea).
1907 A.
Hay, O. P. 1909 A, 95
1910 B, 300.
Heilmann, G. 1926 A, 203.
Hennig, E. 1912 B, 100 ("ceratopsiden").
1924 A, 128.
Hooley, R. W. 1912 A, 445.
Huene, F. 1908 B, 361, 370, 372.
1910 A, 78.
1914 A, 145.

Huene, F. 1914 G, pl. vii.
Jaekel, O. 1909 C, 708.
Knowlton, F. H. 1909 A, 204.
Koken, E. 1893 B, 432 ("ceratopsiden").
1900 A, 464.
Lambe, L. M. 1915 A, 2.
Lee, W. T. 1913 A, 532 ("ceratopsian").
Lull, R. S. 1907 B, 161, 295, 296.
1908 B, 392.
1910 A, 3, 19.
1912 A, 211.
1912 B, 771.
1912 C, 674.
1914 D, 359 ("ceratopsians").
1915 F, 838.
1917 B, 505, 527.
1918 C, 132.
1924 A, 236, 243, 266.
Lydekker, R. 1908 B, 544.
1909 C, 460.
Marsh, O. C. 1891 D, 181.
Matthew, W. D. 1914 B, 387.
1915 C, 32, 107.
Nopcsa, F. 1917 B, 340 ("ceratopsiden").
1918 C, 326 ("ceratopsiden").
Nopcsa, F. 1926 A, 645 ("ceratopsians").
Osborn, H. F. 1903 G, 836.
Peale, A. C. 1912 A, 742.
Pompeckj, J. F. 1921 A, 7 ("ceratopsiden").
Reynolds, S. H. 1897 A, 209, 284.
Richardson, G. B. 1912 A, 275.
Romer, A. S. 1927 C, 226, 239, 252, 259 (Ceratopsia).
Stanton, T. W. 1909 A.
Steiner, H. 1922 A, 347.
Steinmann, G. 1907 A, 452 (Homœopoda).
1908 A, 220 (Ceratopsida).
1909 A, 79.
1912 B, 727 ("ceratopsiden").
Sternberg, C. H. 1915 A, 133.
Sternberg, C. M. 1927 A, 69.
Tornier, G. 1913 B, 373, 374.
Van den Broeck, E. 1900 A, 85.
Wieland, G. R. 1925 B, 560 ("ceratopsians").
Williston, S. W. 1909 E, 194.
1918 A, 81.
1925 A, 9, 17, 95, 100, 118, 150, 154.
1925 B, 214 (Ceratopsia).
Zittel and Broili 1911 A, 295 (Ceratopsidæ).
1923 A, 362 (Ceratopsidæ).

CERATOPSIDÆ Marsh.

Hay, O. P. 1902 A, 498.
Abel, O. 1912 F, 564 ("ceratopsiden").
1916 A, 494 ("ceratopsiden").
1919 A, 646 (Ceratopsidæ, Ceratopsinæ).
1922 C, 340 ("ceratopsiden").
Arldt, T. 1907 D, 271, 332.
Bowen, C. F. 1915 A, 151.
Brown, B. 1914 A, 543, 545.
1914 D, 567.
1914 E, 377.
Cannon, G. L. 1906 B, 197.
Cope, E. D. 1891 N, 43 (Agathaumidæ).
Cross, W. 1896 A, 228.
Darton, N. H. 1901 A, 536.
Depéret, C. 1896 A, 185 ("cératopsides").
1900 A, 530 ("cératopsides").
Douglass, E. 1902 C, 220.
Gilmore, C. W. 1917 A, 37 (Eoceratopsinæ, Centrosaurinæ, Chasmosaurinæ).
1924 E, 43.
Gregory, W. K. 1923 B, 192 ("horned dinosaurs").
Gregory and Mook 1925 A.
Hatcher, J. B. 1902 C, 382 (Agathaumidæ).
1903 D, 374.
1905 B, 89, 102.
1907 A, 14, 296.
Heilmann, G. 1915 A, 116.
Hennig, E. 1924 A, 128.
Henning, C. L. 1914 A, 771 ("ceratopsiden").
Huene, F. 1911 C, 146 ("ceratopsiden").
Jaekel, O. 1914 A, 197 ("ceratopsiden").
Knowlton, F. H. 1911 A, 319.
Knowlton, F. H. 1922 A, 16.
Koken, E. 1900 A, 464.
Lambe, L. M. 1915 A (with subfamilies Eoceratopsinæ, Centrosaurinæ, Chasmosaurinæ).
Matthew, W. D. 1915 C, 32.
1921 D, 211.
Nopcsa, F. 1901 A, 262, 276.
1902 B, 101 ("ceratopsiden").
1903 D, 267 ("ceratopsiden").
1904 A, 257 ("ceratopsiden").
1915 B, 13, 18 (Ceratopsidæ, Torosauridæ).
1918 C, 328.
1922 A, 115.
1923 A, 199.
1923 H, 99, 100, 102, 104, 106, 126, 177, 179, 197.
1928 A, 185 (Ceratopsidæ, Ceratopsinæ, Leptoceratopsinæ, Monocloniinæ).
Osborn, H. F. 1902 I, 20 (Better Agathaumidæ).
Peale, A. C. 1912 A, 750.
Perrier, E. 1920 A, 312 ("cératopsidés").
Romer, A. S. 1927 C, 226.
Steinmann, G. 1907 A, 452.
Van Straelen, V. 1925 A, 1, figs. 1, 2 ("eggs of Protoceratops").
Wieland, G. R. 1911 A, 119, figs. 4-7.
1912 A, 287.
1912 B, 299.
Woodward, H. 1904 A, 148.
Zittel and Broili 1911 A, 295.
1923 A, 336, 362, 366.
Zittel, Eastman, etc. 1902 A, 243.

BRACHYCERATOPS Gilmore. Type *B. montanensis* Gilmore.

Gilmore, C. W. 1914 B, 1.
Brown, B. 1914 D, 567.
1917 A, 282.
Gilmore, C. W. 1915 D, 411, 488.
1917 A.
Gilmore, C. W. 1919 A, 104.
1922 B, 1.
1922 C, 384, pl. viii.
1923 B, 52.
1924 G, 17.

Gregory and Mook 1925 A.
Joleaud, L. 1920 A, 495 (Trachyceratops).
Lambe, L. M. 1915 A, 17.
Lull, R. S. 1915 D, 342.
    1924 A, 245.
Nopcsa, F. 1923 D, 106.
    1923 H, 101-104.
    1926 A, 645.
    1928 A, 185.
Osborn, H. F. 1923 C, 2.
Parks, W. A. 1925 D, 6.
Romer, A. S. 1927 C, 226, 235, figs. 3, 4, 8, 12.
Scott, W. B. 1917 A, 119, fig. 19.
Shufeldt, R. W. 1916 B, 41.
Sternberg, C. M. 1927 A, 72 (Brachiceratops).
    1927 B, 137.
Williston, S. W. 1925 B, 296.
Zittel and Broili 1923 A, 366.

Brachyceratops montanensis Gilmore.

Gilmore, C. W. 1914 B, 1, pls. i, ii; text-figs. 1-3.
Brown, B. 1914 E, 378.
Gilmore, C. W. 1914 D, 19 ("ceratopsian").
    1917 A, 1, 7, pls. i, iii, iv; text-figs. 2-9, 11-26, 41, 47.
    1919 A, 103, 104, text-fig. 4.
    1922 B, 1, pls. i-iv.
    1924 G, 35, fig. 3.
    1926 H, 163, fig.
Gregory, W. K. 1920 A, 127 (B. montanus).
Lambe, L. M. 1915 A, 6, pl. iii, fig. 3; pl. vi, fig. 3; pl. x, fig. 3.
Shufeldt, R. W. 1916 B, 41, fig. 4.
Sternberg, C. M. 1927 B, 136, pl. ii, fig. 2.
    Upper Cretaceous (Two Medicine); Montana.

EOCERATOPS Lambe. Type *Monoclonius canadensis* Lambe.

Lambe, L. M. 1915 A, 1, 16.
Gilmore, C. W. 1917 A, 4.
Lambe, L. M. 1920 B, 40.
Nopcsa, F. 1923 H, 101.
    1928 A, 185.
Parks, W. A. 1925 D, 6.
Sternberg, C. M. 1927 B, 139.
Williston, S. W. 1925 B, 296.
Zittel and Broili 1923 A, 364.

Eoceratops canadensis Lambe.

Lambe, L. M. 1902 A, 63, pl. xvii, figs. 3, 4; pl. xviii, figs. 1-7; text-figs. 18, 19 (Monoclonius).
Bowen, C. F. 1915 A, 136 (Monoclonius).
Brown, B. 1914 B, 550 (Monoclonius).
    1914 E, 378 (Ceratops).
Gilmore, C. W. 1917 A.
Hatcher, J. B. 1905 B, 94 (Ceratops).
    1907 A, 93, 295, pl. iii, fig. 8; pl. v, fig. 3; pls. xviii, xix, xxiii; text-figs. 96, 97 (Ceratops, Monoclonius).
Henning, C. L. 1914 A, 773 (Monoclonius).
Lambe, L. M. 1904 B, 3, pl. ii (Monoclonius).
    1904 C, 23, 37, 49 (Monoclonius).
    1904 D, 81 (Monoclonius).
    1905 D, 363 A (Monoclonius).
    1907 B, 179 (Monoclonius).
    1914 B, 132 (Monoclonius).
    1914 C, 154 (Ceratops).
    1915 A, 1, 6, pl. i; pl. ii, fig. 2; pl. v, fig. 1; pl. ix, fig. 1; pl. x, fig. 2.
    1915 B, 117.
    1916 A, 194.
Lull, R. S. 1907 B, 172, pls. xvii, xix, xxiii; text-figs. 96, 97 (Ceratops).
    1908 B, 394, fig. 7 (Ceratops).
Matthew, W. D. 1916 A, 484 (Ceratops).
Osborn, H. F. 1902 H, 675 (Monoclonius).
    1902 I, 14 (Monoclonius).
    1923 C, 3.
Sternberg, C. M. 1927 A, 69.
    Upper Cretaceous (Belly River); Alberta.

Eoceratops sp. indet.

Gilmore, C. W. 1923 B, 51, pl. v. Upper Cretaceous (Belly River); Alberta.

ARRHINOCERATOPS Parks. Type *A. brachyops* Parks.

Parks, W. A. 1925 D, 7.
Nopcsa, F. 1928 A, 185.

Arrhinoceratops brachyops Parks.

Parks, W. A. 1925 D, 5-15, pls. i, ii.
Sternberg, C. M. 1926 A, 104.
    Upper Cretaceous (Edmonton); Alberta.

MONOCLONIUS Cope. Type *M. crassus* Cope.

Hay, O. P. 1902 A, 499.
Abel, O. 1912 F, 565.
    1916 A, 497, figs. 10, 11.
    1924 A, 712, 713.
Anonymous 1923 A, 192.
Bowen, C. F. 1915 A, 151.
Brown, B. 1914 A, 543, fig. 1.
    1914 B, 549, 551.
    1917 A, 282, 285, pl. xiv.
    1917 B, 135, figs. 1-4.
    1919 A, 413, 426, pl.
Cope, E. D. 1880 U, 147.
Cross, W. 1896 A, 238.
Gilmore, C. W. 1914 B, 9.
    1917 A, 19.
    1922 C, 382, pls. iv, vii.
    1922 F, 1.
    1925 A, 376.
    1925 B, 408.
Gregory, W. K. 1920 A, 127.
Hatcher, J. B. 1905 B, 90.
    1907 A, 70, fig. 2.
Hennig, E. 1916 A, 176.
Henning, C. L. 1914 A, 771.
Huene, F. 1909 B, 17.
Lambe, L. M. 1904 D, 151.
    1910 A, 151.
    1912 A, 9.

Lambe, L. M. 1915 A, 12.
Lull, R. S. 1907 B, 161, 162, 167.
1908 B, 393.
1910 A, 19.
1912 B, 774.
1917 B, 526, 528, fig. 166.
1924 A, 244, 273, fig. 32.
Lydekker, R. 1915 C, 631.
Matthew, W. D. 1915 C, 108, 111, figs. 37, 39.
Nopcsa, F. 1901 A, 270.
1904 A, 236.
1915 B, 14.
1917 A, 211.
1917 B, 340.
1923 H, 101.
1928 A, 185.
Osborn, H. F. 1902 H, 675.
1902 I, 9, 20.
Parks, W. A. 1925 D, 6.
Pompeckj, J. F. 1921 A, 7.
Romer, A. S. 1927 C, 226, figs. 3, 4, 8.
Scott, W. B. 1917 A, 119.
Stanton and Hatcher 1905 A, 38.
Sternberg, C. H. 1903 B, 357.
1903 C, 871.
1915 A, 133.
1917 A, 120.
Williston, S. W. 1925 A, 118, 191, fig. 156.
1925 B, 296.
Zittel and Broili 1911 A, 296.
1923 A, 365.
Zittel, Eastman, etc. 1902 A, 245 (Syn. of Ceratops).

Monoclonius crassus Cope.

Hay, O. P. 1902 A, 499.
Bowen, C. F. 1915 A, 136.
Brown, B. 1914 B, 549, 558.
1917 A, 285.
Cope, E. D. 1903 A, 872.
Du Toit, P. J. 1913 A, 247.
Gilmore, C. W. 1914 B, 9.
1916 D, 286, figs. 29, 30.
Hatcher, J. B. 1905 B, 91.
1907 A, 8, 71, 298, pl. ii, fig. 1; pl. v, fig. 1; text-figs. 13, 75-88.
Lambe, L. M. 1902 A, 68.
1904 C, 24.
1915 A, 13.
Lull, R. S. 1907, in Hatcher, J. B. 1907 A, 76.
1907 B, 167, 298, figs. 75-88.
1908 B, 394.
Nopcsa, F. 1901 B, 216 (Syn. of Agathaumus sylvestris).
Osborn, H. F. 1902 I, 14, 20.
Stanton and Hatcher 1905 A, 40.
Sternberg, C. H. 1909 C, 87.
1914 A, 134.
Zittel, K. A. 1890 A, 752 (Triceratops).
Upper Cretaceous (Judith River); Montana.

Monoclonius cutleri Brown.

Brown, B. 1917 A, 301, pls. xvi-xix.
Gilmore, C. W. 1919 A, 98.
Joleaud, L. 1920 A, 495.
Sternberg, C. M. 1925 A, 110 (Centrosaurus).
Upper Cretaceous (Belly River); Alberta.

Monoclonius dawsoni Lambe.

Lambe, L. M. 1902 A, 57, pl. xvi; pl. xix, figs. 4-6; pl. xx, figs. 3, 4; text-figs. 14-17, 23.
Bowen, C. F. 1915 A, 136.
Brown, B. 1914 B, 550, 558.
1914 E, 378.
Gilmore, C. W. 1914 B, 8.
1917 A, 4.
Hatcher, J. B. 1905 B, 91.
1907 A, 89, 298, pl. iv, figs. 1-5; pl. xx; text-fig. 92.
Henning, C. L. 1914 A, 773.
Lambe, L. M. 1904 B, 3.
1904 C, 23, 37, 49.
1904 D, 81.
1910 A, 149.
1915 A, 6, 18, 21, pl. x, fig. 4 (Brachyceratops).
1915 B, 117 (Brachyceratops).
Lull, R. S. 1907 B, 167, 298, fig. 92.
1911 A, 339.
Matthew, W. D. 1916 A, 484.
Osborn, H. F. 1902 H, 675.
1902 I, 14.
Upper Cretaceous (Belly River); Alberta.

Monoclonius fissus Cope.

Hay, O. P. 1902 A, 500.
Bowen, C. F. 1915 A, 136, 149, 150.
Brown, B. 1914 B, 549 (Species indeterminable).
Cope, E. D. 1903 A, 872.
Hatcher, J. B. 1905 B, 93.
1907 A, 5, 81, fig. 89.
Lambe, L. M. 1904 C, 24.
Osborn, H. F. 1902 I, 14, 20.
Sternberg, C. H. 1914 A, 135.
Upper Cretaceous (Judith River); Montana.

Monoclonius flexus Brown.

Brown, B. 1914 B, 551, 558, pls. xxxviii-xl; text-figs. 1, 2.
1917 A, 285.
Matthew, W. D. 1916 A, 484.
Sternberg, C. M. 1927 B, 141.
Upper Cretaceous (Belly River); Alberta.

Monoclonius nasicornus Brown.

Brown, B. 1917 A, 286, pls. xi-xiii; text-figs. 3, 4.
Abel, O. 1922 C, 341, fig. 297.
1924 A, 713, fig. 9.
Brown, B. 1917 B, 135, 138, fig.
Joleaud, L. 1920 A, 495, fig. 10.
Matthew, W. D. 1920 D, 541, fig.
Sternberg, C. M. 1927 A, 69.
Zittel and Broili 1923 A, 365.
Upper Cretaceous (Belly River); Alberta.

Monoclonius recurvicornis Cope.

Hay, O. P. 1902 A, 500.
Bowen, C. F. 1915 A, 136.
Brown, B. 1910 A, 268.
1914 B, 549.
Hatcher, J. B. 1896 A, 113.
1905 B, 94 (Ceratops).

Hatcher, J. B. 1907 A, 5, 81, 92, 295, pl. iv, fig. 4; pl. v, fig. 4; text-figs. 3, 4, 90.
Lambe, L. M. 1902 A, 68.
1904 C, 24.
Lull, R. S. 1907 B, 173, 295, fig. 90 (Ceratops?).
1912 B, 774, fig. (Ceratops?).
Osborn, H. F. 1902 I, 14, 20.
Sternberg, C. H. 1914 A, 134.
Zittel, K. A. 1890 A, 752 (Triceratops).
Upper Cretaceous (Judith River); Montana.

Monoclonius sp. indet.

Anonymous 1916 C, 133 ("Monoclonius").
Brown, B. 1910 A, 268, fig. 1 ("ceratopsian horn"). Upper Cretaceous (Ojo Alamo); New Mexico.
Gilmore, C. W. 1916 D, 286, fig. 29. Upper Cretaceous (Ojo Alamo); New Mexico.
1920 A, 9. Upper Cretaceous (Ojo Alamo); New Mexico.
1922 A, 7. Upper Cretaceous (Ojo Alamo); New Mexico.
Hay, O. P. 1903 D, 119.
Reeside, J. B. 1924 A, 31. Upper Cretaceous (Ojo Alamo); New Mexico.

CHASMOSAURUS Lambe. Type *Monoclonius belli* Lambe.

Lambe, L. M. 1914 F, 284.
Abel, O. 1924 A, 713.
Anonymous 1914 A, 386 (Protorosaurus).
Brown, B. 1917 A, 305 (Protorosaurus).
Gilmore, C. W. 1914 B, 4 (Protorosaurus).
1917 A, 4.
1923 B, 51.
Gregory and Mook 1925 A, 5, 6.
Lambe, L. M. 1914 B, 131 (Protorosaurus, preoccupied).
1914 C, 149 (Protorosaurus).
1914 G, 386 (Protorosaurus).
1915 A, 4, 17.
1915 B, 117.
1915 D, 326.
Lydekker, R. 1915 C, 629.
Nopcsa, F. 1923 H, 101.
1928 A, 185.
Osborn, H. F. 1923 C, 2 (Protorosaurus).
Parks, W. A. 1925 D, 6.
Sternberg, C. H. 1917 A, 73, 80, 104.
Sternberg, C. M. 1927 B, 137.
Williston, S. W. 1914 A, 132 (Protorosaurus).
1914 D, 395 (Protorosaurus).
1925 B, 296.
Zittel and Broili 1923 A, 366.
This generic name is sometimes spelled *Chasmasaurus*.

Chasmosaurus belli (Lambe).

Lambe, L. M. 1902 A, 66, pl. xx, figs. 1, 2; text-fig. 20 (Monoclonius).
Abel, O. 1924 A, 712, fig. 7.
Anonymous 1914 A, 386 (Protorosaurus, Chasmosaurus).
Bowen, C. F. 1915 A, 138.
Brown, B. 1914 B, 550 (Monoclonius).
1914 E, 378 (Ceratops).
Gilmore, C. W. 1917 A.
1920 A, 65.
1922 C, 384, pl. iv, fig. 1.
Hatcher, J. B. 1905 B, 95 (Ceratops).
1907 A, 96, text-fig. 98 (Monoclonius); 295, pl. ii, fig. 6; pl. xxi (Ceratops).
Henning, C. L. 1914 A, 773 (Monoclonius); 774 (Chasmosaurus).
Lambe, L. M. 1904 B, 7 (Monoclonius).
1904 C, 23, 24, 37, 49 (Monoclonius).
1914 B, 131, pl. xiv (Protorosaurus, preoccupied).
1914 C, 149, pls. xix, xx.
1914 F, 294, 296, 297.
1914 G, 386 (Monoclonius).
1915 A, 11, pl. iv, fig. 1; pl. vii, fig. 1; pl. viii.
1915 B, 117.
1916 A, 196.
1917 B, 82.
1917 E, 291.
Lull, R. S. 1907 B, 173, 179, pl. xxi; text-fig. 98 (Monoclonius)
Matthew, W. D. 1916 A, 484 (Ceratops).
Osborn, H. F. 1902 H, 675 (Monoclonius).
1902 I, 14 (Monoclonius).
Parks, W. A. 1925 D, 8.
Sternberg, C. H. 1917 A, 86, figs. 30, 31.
1918 A, 208 ("Chasmasaurus").
Sternberg, C. M. 1921 A, 64.
1925 A, 108, fig.
1927 A, 67, figs. 1, 2.
Upper Cretaceous (Belly River); Alberta.

CERATOPS Marsh. Type *C. montanus* Marsh.

Hay, O. P. 1902 A, 500.
Abel, O. 1912 F, 565.
1916 A, 497, fig. 10.
Bowen, C. F. 1915 A, 151.
Brown, B. 1914 E, 377.
1917 A, 282.
Darton, N. H. 1901 A, 536, 540.
Depéret, C. 1896 A, 185.
1912 A, 705.
Dollo, L. 1889 G, 675.
Gilmore, C. W. 1917 A.
1920 A, 64.
Gregory and Mook 1925 A, 6.
Hatcher, J. B. 1905 B, 93.
1907 A, 100.
Huene, F. 1909 B, 18.
Lambe, L. M. 1912 A, 9.
1914 B, 131.
1915 A, 10.
Lull, R. S. 1906 A, 144 (Proceratops, type *Ceratops montanus*).
1907 in Hatcher, J. B. 1907 A, 100 (Proceratops); 143 (Sterrholophus).
1907 B, 161, 165, 172, pl. xviii, fig. 1.

Lull, R. S. 1908 B, 393.
1910 A, 19.
1912 B, 774.
Matthew, W. D. 1915 C, 112, fig. 37.
1920 D, 542.
Nopcsa, F. 1901 A, 270.
1923 H, 101.
1928 A, 185.
Osborn, H. F. 1902 I, 9.
Parks, W. A. 1925 D, 6.
Scott, W. B. 1917 A, 119.
Stanton and Hatcher 1905 A, 38, 50, 51, 59.
Sternberg, C. H. 1915 A, 133.
1917 A, 119.
Sternberg, C. M. 1927 A, 70.
Williston, S. W. 1925 B, 296.
Zittel, Eastman, etc. 1902 A, 245.

Proceratops was proposed by Lull to replace *Ceratops* Marsh, supposed to be preoccupied by *Ceratops* of Rafinesque; but the latter is a *nomen nudum* (Richmond, Auk. xxvi, 1909, 44).

Ceratops montanus Marsh.

Hay, O. P. 1902 A, 500.
Bowen, C. F. 1915 A, 136, 149.
Cannon, G. L. 1894 A, 254.
Cross, W. 1896 A, 227, 229.
Gilmore, C. W. 1923 B, 51.
Hatcher, J. B. 1896 A, 113.
1905 B, 94.
1907 A, 7, 100, 295, pl. iii, fig. 1; pl. v, fig. 2; text-figs. 14, 103, 104.
Lambe, L. M. 1915 A, 10.
Lull, R. S. 1906 A, 144 (Ceratops; to Proceratops).
1907 B, 172.
Merrill, G. P. 1907 A, 65.
Osborn, H. F. 1902 I, 14, 18, 20.
1917 A, 740.
Stanton and Hatcher 1905 A, 43.
Sternberg, C. H. 1909 C, 87.
Sternberg, C. M. 1927 A, 70.

Upper Cretaceous (Judith River); Montana: (Denver or Arapahoe?); Colorado.

Ceratops paucidens Marsh.

Hay, O. P. 1902 A, 500.
Bowen, C. F. 1915 A, 138 (Ceratops); 142 (Trachodon).
Gilmore, C. W. 1924 C, 26 (Hadrosaurus).
Hatcher, J. B. 1902 C, 382, 385 [Trachodon (Hadrosaurus)].
1905 B, 95 (C. paucidus).
1907 A, 103, 295.
Lull, R. S. 1906 A, 144.
1907 B, 295.
Merrill, G. P. 1907 A, 65 (Ceratops); 73 (Hadrosaurus).
Osborn, H. F. 1902 I, 15 (Trachodon).

Upper Cretaceous (Judith River); Montana.

Ceratops sp. indet.

Gilmore, C. W. 1920 A, 64, pl. xxv, figs. 1. 2.
Upper Cretaceous (Kirtland); New Mexico.
Williston, S. W. 1907 B, 53 (This genus?).
Cretaceous (Rattlesnake); Texas.

CENTROSAURUS Lambe. Type *C. apertus* Lambe.

Lambe, L. M. 1904 D, 81.
Abel, O. 1912 F, 565.
1919 A, 651.
Broili and Fischer 1917 A, 413.
Gilmore, C. W. 1917 A.
Huene, F. 1909 B, 17.
Lambe, L. M. 1905 D, 363 A.
1910 A, 149.
1914 F, 294.
1915 A, 4, 16.
1915 B, 117.
1920 B, 40.
Lull, R. S. 1907 B, 161, 162, 168, 295.
1908 B, 393.
1910 A, 19.
1911 A, 339.
1915 D, 342.
Nopcsa, F. 1916 B, 511.
Parks, W. A. 1925 D, 6.
Romer, A. S. 1927 C, 235, figs. 3, 4, 5 (Kentrosaurus).
Sternberg, C. H. 1915 A, 133.
1917 A, 120.
Sternberg, C. M. 1927 A, 70.
1927 B, 139.
Williston, S. W. 1925 B, 296.
Zittel and Broili 1911 A, 296.
1923 A, 366.

Centrosaurus apertus Lambe.

Lambe, L. M. 1904 D, 81.
Abel, O. 1919 A, 647, fig. 512.
1924 A, 712, fig. 8.
Bowen, C. F. 1915 A, 136.
Brown, B. 1914 B, 550 (Syn. of Monoclonius dawsoni).
Hatcher, J. B. 1907 A, 93, 295, pl. ii, fig. 2; pl. iv, fig. 3; pl. xxiv; text-fig. 93.
Henning, C. L. 1914 A, 771.
Lambe, L. M. 1904 B, 3, pl. i; 1 text-fig.
1905 D, 363 A.
1907 B, 179.
1914 C, 151.
1914 F, 294, 298.
1915 A, 21, pl. iii, fig. 1; pl. vi, fig. 1; pl. ix, fig. 2; pl. xi.
1915 B, 117 (Monoclonius flexus a syn.).
Lull, R. S., in Hatcher, J. B. 1907 A, 90.
1907 B, 167, 168, 179, 295, pl. xxiv; text-fig. 93.
1908 B, 394, fig. 5.
1911 A, 339.
Nopcsa, F. 1916 B, 512.
Parks, W. A. 1925 D, 8.
Sternberg, C. H. 1914 A, 135.
1917 A, 226, figs. 35, 38 ("Centrosaurus").
1918 A, 209 ("Centrosaurus").

Upper Cretaceous (Belly River); Alberta

STYRACOSAURUS Lambe. Type *S. albertensis* Lambe.

Lambe, L. M. 1913 C, 109.
Abel, O. 1916 A, 497, fig. 11.
1919 A, 651.
Anonymous 1914 A, 385.
Brown, B. 1914 B, 551.
1917 A, 282.
1917 B, 140.
Gilmore, C. W. 1914 B.
1917 A, 4.
1921 A, 7.
1922 C, 386, pl. vi.
Gregory and Mook 1925 A, 6.
Henning, C. L. 1914 A, 774.
Lambe, L. M. 1914 C, 151.
1914 G, 385.
1915 A, 4, 17.
Lull, R. S. 1915 D, 342.
1917 B, 526, 528, fig. 166.
1924 A, 244, fig. 32.
Matthew, W. D. 1915 C, 108, fig. 37.
1920 D, 542.
Nopcsa, F. 1923 H, 101.
1928 A, 185.
Osborn, H. F. 1923 C, 2.
Parks, W. A. 1925 D, 6.
Scott, W. B. 1917 A, 119.
Sternberg, C. H. 1917 A, 102, 120, fig. 34.
Williston, S. W. 1925 B, 296.
Zittel and Broili 1923 A, 366.

Styracosaurus albertensis Lambe.

Lambe, L. M. 1913 C, 109, pls. x-xii.
Abel, O. 1919 A, 649, figs. 514, 515.
Anonymous 1914 A, 385.
Brown, B. 1914 A, 540.
1914 E, 378.
Gilmore, C. W. 1914 B.
1917 A, 10.
1921 A, 7, figs. 1-3.
Henning, C. L. 1914 A, 773, figs. 5, 6.
Lambe, L. M. 1914 F, 294, 296, 298.
1914 G, 385.
1915 A, 18, pl. iii, fig. 2; pl. vi, fig. 2.
1915 B, 117.
Lydekker, R. 1915 C, 629.
Matthew, W. D. 1916 A, 484.
Sternberg, C. H. 1914 A, 135.
1917 A, 102, fig. 34 ("Styracosaurus").
1918 A, 206.
Sternberg, C. M. 1927 B, 138, pl. i.
Upper Cretaceous (Belly River); Alberta.

Styracosaurus sphenocerus Cope.

Unless otherwise indicated the authors, as cited, use the generic name *Monoclonius*.

Hay, O. P. 1902 A, 500.
Ballou, W. H. 1897 A, 21, fig. (Monoclonius); 18 (Agathaumas).
Brown, B. 1914 B, 549 (Syn. of M. crassus).
1917 A, 285 (M. sphenoceros).
Bowen, C. F. 1915 A, 136.
Cope, E. D. 1903 A, 872.
Gilmore, C. W. 1917 A, 15 (Styracosaurus).
Hatcher, J. B. 1905 B, 93.
1907 A, 5, 87, 93, 298, pl. iv, fig. 2; text-fig. 91.
Henning, C. L. 1914 A, 774.
Lambe, L. M. 1902 A, 68.
1904 C, 24.
1904 D, 83.
1913 C, 115.
Lull, R. S. 1907 B, 167, 298, fig. 91.
Osborn, H. F. 1902 I, 14.
1904 F, 45 (Agathaumas).
Sternberg, C. H. 1909 C, 87.
1914 A, 134.
Tornier, G. 1913 B, 375, fig. 53 (Agathaumas).
Upper Cretaceous (Judith River); Montana.

TOROSAURUS Marsh. Type *T. latus* Marsh.

Hay, O. P. 1902 A, 499.
Abel, O. 1912 F, 565.
1916 A, 497, fig. 10.
1919 A, 651.
Bowen, C. F. 1915 A, 151.
Brown, B. 1907 A, 841.
1914 A, 539.
1917 A, 282.
Case, E. C. 1898 C, 642.
Gilmore, C. W. 1917 A, 4.
Gregory and Mook 1925 A, 5.
Hatcher, J. B. 1905 B, 102.
1907 A, 300.
Henning, C. L. 1914 A, 771.
Huene, F. 1909 B, 18.
Lambe, L. M. 1912 A, 9.
1915 A, 17.
Lull, R. S. 1905 A, 420.
1907 B, 161, 165, 300.
1908 B, 393.
1911 A, 339.
1912 B, 775.
1917 B, 527, fig. 166.
1924 A, 244, fig. 32.
Lydekker, R. 1915 C, 629.
Marsh, O. C. 1899 C, 72.
Matthew, W. D. 1915 C, 108, 111, fig. 37.
Nopcsa, F. 1901 A, 271.
1923 H, 101.
1928 A, 185.
Osborn, H. F. 1902 I, 9.
1923 C, 2.
Parks, W. A. 1925 D, 6.
Schuchert and Levene 1927 A, 323.
Scott, W. B. 1917 A, 119.
Sternberg, C. M. 1927 A, 70.
Williston, S. W. 1925 B, 296.
Zittel and Broili 1923 A, 366.
Zittel, Eastman, etc. 1902 A, 245.

Torosaurus gladius Marsh.

Hay, O. P. 1902 A, 499.
Bowen, C. F. 1915 A, 140.
Hatcher, J. B. 1907 A, 15, 152, 300, pl. ii, fig. 7; pl. iii, fig. 3; text-figs. 7, 12, 14, 119.
Janensch, W. 1926 A, 195.
Lambe, L. M. 1904 C, 24.
1914 B, 131.

Lambe, L. M. 1914 C, 152.
1915 A, pl. iv, fig. 2; pl. vii, fig. 2.
Lull, R. S. 1907 B, 174, 300; text-figs. 7, 12, 14, 119.
1908 B, 394.
1915 D, 343.
Osborn, H. F. 1902 I, 15.
Schuchert, C. 1910 A, 596.
Upper Cretaceous (Lance); Wyoming.

Torosaurus latus Marsh.

Hay, O. P. 1902 A, 499.
Bowen, C. F. 1915 A, 140.
Hatcher, J. B. 1907 A, 35, 150, 300, fig. 118.
Hay, O. P. 1909 A, 98.
Janensch, W. 1926 A, 195.
Lambe, L. M. 1914 B, 131.
Lull, R. S. 1907 B, 174, 300, fig. 118.
1908 B, 394, fig. 4.
1915 D, 343.
Osborn, H. F. 1902 I, 14.
Parks, W. A. 1925 D, 8.
Pompeckj, J. F. 1920 A, 116.
Schuchert, C. 1910 A, 596.
Upper Cretaceous (Lance); Wyoming.

ANCHICERATOPS Brown. Type *A. ornatus* Brown.

Brown, B. 1914 A, 539, 543, fig. 1.
Abel, O. 1916 A, 497, fig. 10.
Brown, B. 1917 A, 282.
Gilmore, C. W. 1919 A, 110.
Gregory and Mook 1925 A, 6.
Lambe, L. M. 1915 A, 19.
Lydekker, R. 1915 C, 630.
Matthew, W. D. 1915 C, 108, fig. 37.
1920 D, 542.
Nopcsa, F. 1917 A, 211.
1917 B, 340.
1923 H, 101.
1928 A, 185.
Osborn, H. F. 1923 C, 2.
Parks, W. A. 1925 D, 6.
Sternberg, C. M. 1926 A, 103.
1927 A, 70.
Williston, S. W. 1925 B, 296.
Zittel and Broili 1923 A, 365.

Anchiceratops ornatus Brown.

Brown, B. 1914 A, 539, pls. xxix-xxxv; text-fig. 1.
Lambe, L. M. 1915 A, 19.
Sternberg, C. M. 1926 A, 104.
Upper Cretaceous (Edmonton); Alberta.

Anchiceratops sp. indet.

Sternberg, C. M. 1926 A, 104. Upper Cretaceous (Edmonton); Alberta.

LEPTOCERATOPS Brown. Type *L. gracilis* Brown.

Brown, B. 1914 D, 567.
1917 A, 282.
Gilmore, C. W. 1917 A, 35.
Gregory and Mook 1925 A.
Lull, R. S. 1915 D, 342.
Lydekker, R. 1915 C, 631.
Nopcsa, F. 1922 A, 115.
1923 H, 101, 103.
1928 A, 185.
Osborn, H. F. 1923 C, 2.
Parks, W. A. 1925 D, 6.
Romer, A. S. 1927 C, 235, 237, 243, figs. 3, 4, 8, 13.
Steiner, H. 1922 A, 347.
Williston, S. W. 1925 A, 175, 176, fig. 141.
1925 B, 296.
Zittel and Broili 1923 A, 366.

Leptoceratops gracilis Brown.

Brown, B. 1914 D, 567, pl. xlii; text-figs. 1-19.
Gilmore, C. W. 1915 A, 600.
1917 A, 37.
Janensch, W. 1926 A, 196.
Sternberg, C. M. 1926 A, 104.
Upper Cretaceous (Edmonton); Alberta.

DICERATOPS Lull. Type *D. hatcheri* Lull.

Lull, R. S. 1905, in Hatcher, J. B. 1905 A, 413, 417.
Abel, O. 1912 F, 565, 580.
1919 A, 651.
Anonymous 1923 A, 192.
Gilmore, C. W. 1917 A, 4.
Gregory and Mook 1925 A, 6.
Huene, F. 1909 B, 18.
Lambe, L. M. 1915 A, 2, 16.
Lull, R. S. 1905 A, 420.
1907, in Hatcher, J. B. 1907 A, 149.
1907 B, 161, 163.
1908 B, 393.
1915 D, 342.
1917 B, 528.
1924 A, 244.
Nopcsa, F. 1928 A, 185.
Williston, S. W. 1925 B, 296.
Zittel and Broili 1911 A, 296.
1923 A, 365.

Diceratops hatcheri Lull.

Lull, R. S. 1905, in Hatcher, J. B. 1905 A, 417, pl. xviii.
Anonymous 1905 B, 205.
Bowen, C. F. 1915 A, 140.
Gilmore, C. W. 1906 A, 609, pls. xxxiii, xxxiv.
Lucas, F. A. 1906 C, 955.
Lull, R. S. 1905 A, 420, pl. xiv.
1907, in Hatcher, J. B. 1907 A, 149, pl. ii, fig. 5; pl. iv, fig. 12; pl. v, fig. 10; pls. xlvii, xlviii.
1907 B, 168, pls. xlvii, xlviii.
1908 B, 392.
1915 D, 343.
Parks, W. A. 1925 D, 8.
Schuchert, C. 1910 A, 596.
Upper Cretaceous (Lance); Wyoming.

TRICERATOPS Marsh. Type *Ceratops horridus* Marsh.

Hay, O. P. 1902 A, 498 (Triceratops); 499 (Sterrholophus).
Abel, O. 1907 B (76).
1907 F, 462.
1908 D (217).
1912 F, 297, 579, 705, figs. 220, 221.
1916 A, 470, figs. 1, 3, 10.
1919 A, 651.
1920 A, 387, 393, fig. 603.
1922 C, 340, 358, fig. 308.
1924 A, 716.
1925 A, 217, fig. 158.
Anonymous 1910 B, 8.
1923 A, 192.
Beasley, W. L. 1903 B, 87, fig. 3.
Beddard, F. E. 1898 A, 155.
Bigot, A. 1897 A, 462 (Triceratopus, Sterrholophus).
Boule, M. 1902 B, 908, figs. 13, 14.
Bowen, C. F. 1915 A, 151.
Brown, B. 1906 A, 297, figs. 1, 2.
1907 A, 841.
1908 C, 54.
1914 A, 539, 543, fig. 1.
1914 B, 552.
1914 D, 567.
1914 E, 377.
1915 A, 271.
1917 A, 281.
1917 B, 140.
Campbell, M. R. 1915 A, 73, pl. x.
Cannon, G. L. 1894 A, 260.
Cross, W. 1909 A, 42.
Depéret, C. 1896 A, 185.
1912 A, 705.
Dollo, L. 1889 J, 686.
1905 B, 251.
1906 A, 444, 445.
Douglass, E. 1909 C, 277.
Drevermann, F. 1913 A, 10, fig. 2.
Du Toit, P. J. 1913 A, 248.
Fraas, E. 1911 B, 33.
Gaudry, A. 1898 A, 127.
Gilmore, C. W. 1909 A, 210.
1914 A, 66.
1914 B.
1915 C, 58, pl. xi.
1917 A.
1919 A, 97, pls. v-viii; text-fig. 1.
1920 C, 273.
1922 A, 6.
1922 C, 381, pls. i, iii, v, vii, viii.
1924 G, 17, 26.
1925 B, 408.
1927 I, 393, fig.
Gregory, W. K. 1920 A, 126, fig. 46.
Gregory and Mook 1925 A.
Hatcher, J. B. 1905 A, 418.
1907 A, 14, 116, 300, pls. i, xlix; text-figs. 46, 47, 69, 70, 73.
Hay, O. P. 1909 A, 95.
1910 C, 7.
Heilmann, G. 1913 A, 56.
1913 B, 73, fig. 101.
Hennig, E. 1924 A, 146.
Henning, C. L. 1914 A, 770, fig. 1.
Hoernes, R. 1912 A, 660.
Hoffmann, C. K. 1890 B, 1315 (Polyonax).
Hooley, R. W. 1912 A, 449.
1925 A, 26.
Huene, F. 1905 B, 346.
1906 B, 151, fig. 97 (Sterrholophus).
1906 C, 337.
1908 B, 289, 359, 408.
1909 A, 131.
1909 B, 18.
1911 C, 154, fig. 8.
1914 C, 583.
Hutchinson, H. N. 1910 A, 182, pls. xxvii, xxviii.
1917 A, 363, 364.
Janensch, W. 1925 B, 272.
Knipe, H. R. 1912 A, 100, fig.
Knowlton, F. H. 1909 A, 232.
1911 A, 320.
1911 B, 360.
Lambe, L. M. 1912 A, 9.
1915 A, 2, 16.
Lankester, E. R. 1905 A, 207, fig. 149.
Lebedinsky, N. G. 1913 A, 769.
1913 B, 197.
Lucas, F. A. 1901 F, 485, pl. vi.
1901 J, 101, 109, figs. 22, 26.
1902 B, 208, fig.
1902 C, 642, pl. i.
1902 I, 43, figs.
Lull, R. S. 1903 A, 694.
1905 A, 420.
1907, in Hatcher, J. B. 1907 A, 47, 76.
1907 B, 161, 166, 168, 300, pls. x, xxv; text-figs. 55, 61, 82 (Sterrholophus a syn.).
1908 B, 387, fig. 1.
1908 C, 255.
1910 A, 3.
1911 A, 339.
1912 B, 774.
1912 C, 674.
1915 D, 342.
1917 B, 297, 526, 527, figs. 166, 167.
1924 A, 244, 261, 266, fig. 32.
Lydekker, R. 1908 B, 545, fig.
1912 C, 123, 137.
Matthew, W. D. 1910 D, 555.
1910 F, 8.
1915 C, 110, 111, figs. 38, 40.
1920 D, 542.
Nopcsa, F. 1901 A, 270 (Sterrholophus); 271 (Triceratops).
1902 B, 98.
1903 D, 266.
1904 A, 236.
1905 B, 244.
1905 C, 291.
1911 B, 8.
1915 B, 14.
1917 A, 211.
1917 B, 340.
1918 B, 239.
1922 A, 114.
1923 G, 110.
1923 H, 12, 100, 101, 102, 103, 105, pl. iii, fig. 4.
1925 B, 11.

Nopcsa, F. 1928 A, 185.
Osborn, H. F. 1902 I, 9.
1904 F, 19.
1912 G, 233, fig. 1.
1917 A, 738.
1917 B, 225.
1923 C, 2.
1924 L, 145.
Oswald, F. 1909 A, 125 (Triceratops, Sterrholophus).
Parks, W. A. 1925 D, 6.
Petronievics, B. 1919 A, 409, 413, 417.
Pompeckj, J. F. 1920 A, 116, 119.
1921 A, 1, fig. 1.
1922 B, 88.
Rogenhofer, A. 1908 A (42).
Rogers, A. F. 1924 A, 546.
Romer, A. S. 1927 C, 226, figs. 3-5, 8, 10, 12.
Schuchert, C. 1905 A, 458.
1905 B, 133.
Schuchert and Levene 1927 A, 317, fig.
Scott, W. B. 1917 A, 119.
Seeley, H. G. 1892 D, 83.
Seitz, A. L. L. 1907 A, 345.
Shufeldt, R. W. 1916 B, 41.
Stanton, T. W. 1909 A.
1910 A, 64.
Steinmann, G. 1907 A, 452.
1908 A, 220, fig. 130.
Sternberg, C. H. 1909 A, 114.
1909 C, 270.
1911 A, 72.
1911 B, 219.
1917 A, fig. 3.
Sternberg, C. M. 1921 B, 97.
1927 B, 135.
Sternfield, R. 1909 A, 382.
Stremme, H. 1909 B, 796.
1910 A, 550.
Wegemann, C. H. 1918 A, 59.
Whiteaves, J. F. 1901 A, 187.
Whitnal, H. O. 1925 A, 19.
Wieland, G. R. 1911 A, 122.
1912 A, 287.
1912 B, 299.
Wilckens, O. 1911 A, 706.
Williston, S. W. 1925 A, 87, 141, 149, figs. 70, 113, 122.
1925 B, 296.
Woodward, H. 1904 B, 147.
Zittel and Broili 1911 A, 296.
1923 A, 364.
Zittel, Eastmann, etc. 1902 A, 244 (Triceratops); 245 (Sterrholophus).

Triceratops alticornis (Marsh).

Hay, O. P. 1902 A, 500 (Ceratops).
Bowen, C. F. 1915 A, 138.
Cannon, G. L. 1894 A, 258 ("dinosaur").
1906 B, 198.
Cross, W. 1888 A, 132 (Bison).
1896 A, 193 (Ceratops).
Gilmore, C. W. 1922 C, 387 (T. alticornis); pl. iii (T. atticornis).
Hatcher, J. B. 1896 A, 113 (Ceratops).
1907 A, 6, 115, 300, fig. 106 (Ceratops).
Lull, R. S. 1907 B, 170, fig. 106.
Merrill, G. P. 1907 A, 64 (Bison); 65 (Ceratops).
Osborn, H. F. 1902 I, 14 (Ceratops).
Osborn, H. F. 1917 A, 740.
Upper Cretaceous (Denver); Colorado.

Triceratops brevicornus Hatcher.

Hatcher, J. B. 1905 A, 413, pl. xii.
Anonymous 1905 B, 205 (T. brevicornis).
Bowen, C. F. 1915 A, 138.
Brown, B. 1907 A, 842.
1914 E, 358.
Gilmore, C. W. 1917 A, 35.
Hatcher, J. B. 1907 A, 55, 141, 300, pl. iv, fig. 9, pl. v, fig. 7; pls. xl-xlii; text-fig. 48.
Lull, R. S. 1907 B, 169, 300, pls. xl-xlii.
1912 B, 775, fig.
1915 D, 343, 344.
Osborn, H. F. 1923 C, 2.
Parks, W. A. 1925 D, 8 (T. brevicornis).
Schuchert, C. 1910 A, 596.
Upper Cretaceous (Lance); Wyoming: (Hell Creek); Montana.

Triceratops calicornis Marsh.

Hay, O. P. 1902 A, 498.
Abel, O. 1912 F, 564, fig. 437.
Bowen, C. F. 1915 A, 140.
Gilmore, C. W. 1906 A, 608, pl. xxxii.
1917 A, 19.
1919 A, 101.
Hatcher, J. B. 1907 A, 138, 300, pl. iv, fig. 10; pl. v, fig. 8; pls. xxxviii-xl.
Knowlton, F. H. 1909 A, 190.
Lull, R. S. 1907 B, 171, 300, pls. xxxviii-xl.
1912 B, 775 (Syn.? of T. elatus).
1915 D, 343, 344 (Syn.? of T. elatus).
Merrill, G. P. 1907 A, 79.
Nopcsa, F. 1901 B, 217 (T. calcicornis).
Osborn, H. F. 1902 I, 14.
Parks, W. A. 1925 D, 7, 8.
Schuchert, C. 1910 A, 596.
Shufeldt, R. W. 1916 B, 41, fig. 3 (T. galicornis).
Upper Cretaceous (Lance); Wyoming.

Triceratops elatus Marsh.

Hay, O. P. 1902 A, 498.
Bowen, C. F. 1915 A, 138.
Gilmore, C. W. 1919 A, 97, pls. iii, ix.
1920 C, 274, pl. ii.
Hatcher, J. B. 1907 A, 134, 300, pl. xliii; text-figs. 30, 114, 115.
Huene, F. 1911 C, 150, fig. 7 (This species?).
Lambe, L. M. 1915 A, 24, pl. x, fig. 1.
Lull, R. S. 1907 B, 163, 170, 300, pl. xliii.
1912 B, 775, fig. (T. calicornis a syn.).
1915 D, 343, 344 (T. calicornis a syn.?).
Merrill, G. P. 1907 A, 79.
Moodie, R. L. 1923 B, 134, fig. 9.
Osborn, H. F. 1902 I, 14.
Parks, W. A. 1925 D, 8.
Schuchert, C. 1910 A, 596.
Upper Cretaceous (Lance); Wyoming.

Triceratops flabellatus Marsh.

Hay, O. P. 1902 A, 499 (Sterrholophus).
Abel, O. 1925 A, 217, figs. 155, 161.
Boule, M. 1891 A, 16, fig. 3.
Bowen, C. F. 1915 A, 138.
Eimer, G. H. T. 1901 A, 131.

Eisler, P. 1895 A, 52.
Gilmore, C. W. 1919 A, 106, text-fig. 6.
Hatcher, J. B. 1907 A, 15, 143, 300, pl. ii, fig. 3; pl. iii, fig. 4; pl. v, fig. 9; pls. xliv-xlvi; text-figs. 6, 8-11, 14, 15, 17-23, 28, 31, 33, 36, 38, 39, 43, 44, 60-62 (Triceratops, Sterrholophus).
Hay, O. P. 1909 A, 98.
Huene, F. 1911 C, 147, figs. 1, 2, 9.
1914 C, 584, pl. xi, fig. 1.
Jaekel, O. 1911 A, 161, fig. 179.
Koken, E. 1893 B, 433.
Lambe, L. M. 1915 A, pl. ii, fig. 3; pl. v, fig. 2.
Lull, R. S. 1907 B, 171, 300, pls. xliv-xlvi; text-figs. 6, 8-11, 15, 17-23, 28, 31, 33, 36, 38, 39, 43, 44, 60-62.
1915 D, 343, 344.
Lydekker, R. 1912 C, 123, fig. 9.
Osborn, H. F. 1902 I, 14 (Sterrholophus).
Parks, W. A. 1925 D, 8.
Pompeckj, J. F. 1920 A, 118.
1921 A, 4.
Schuchert, C. 1910 A, 596.
Woodward, A. S. 1922 C, 20, fig. 14 (Stereolophus).
Zittel and Broili 1911 A, 295.
1923 A, 363, figs. 475-477.
Upper Cretaceous (Lance); Wyoming.

Triceratops galeus Marsh.

Hay, O. P. 1902 A, 498.
Bowen, C. F. 1915 A, 140, 150.
Cannon, G. L. 1894 A, 254.
Cross, W. 1896 A, 227, 230.
Hatcher, J. B. 1907 A, 132, 300, fig. 111 (A rejected species).
Lull, R. S. 1907 B, 168, 184, 300.
Merrill, G. P. 1907 A, 79.
Osborn, H. F. 1902 I, 14.
Upper Cretaceous (Arapahoe); Colorado.

Triceratops horridus Marsh.

Hay, O. P. 1902 A, 498.
Abel, O. 1925 A, 217.
Bigot, A. 1897 A, 464, fig. 4.
Bowen, C. F. 1915 A, 138.
Brown, B. 1914 A, 543.
Cross, W. 1896 A, 227, 230.
Dollo, L. 1889 J, 686.
Hatcher, J. B. 1907 A, 117, 300, pl. iv, fig. 6; pls. xvii, xxvi; text-figs. 24, 25, 27, 107.
Hay, O. P. 1909 A, 102, 104.
Huene, F. 1914 C, 583, pl. xi, fig. 2.
Knowlton, F. H. 1909 A, 202.
1922 A, 26 (Ceratops).
Lull, R. S. 1907 B, 168, 300, pl. xxvi; text-figs. 24-27, 107.
1915 D, 343, 344.
Osborn, H. F. 1902 I, 14.
Pompeckj, J. F. 1921 A, 11.
Schuchert, C. 1910 A, 596.
Stanton, T. W. 1909 A, 249.
Upper Cretaceous (Lance); Wyoming: (Arapahoe?); Colorado.

Triceratops "ingens."

Lull, R. S. 1915 D, 343 (No description). Upper Cretaceous (Lance); Wyoming.

Triceratops obtusus Marsh.

Hay, O. P. 1902 A, 499.
Bowen, C. F. 1915 A, 138.
Gilmore, C. W. 1919 A, 98, pl. iv.
Hatcher, J. B. 1907 A, 140, 300, pl. iv, fig. 11.
Lull, R. S. 1907 B, 171, 300, figs. 116, 117.
1915 D, 343.
Merrill, G. P. 1907 A, 79.
Osborn, H. F. 1902 I, 14.
Schuchert, C. 1910 A, 596.
Upper Cretaceous (Lance); Wyoming.

Triceratops prorsus Marsh.

Hay, O. P. 1902 A, 499.
Abel, O. 1909 F, 463, fig. 5.
1912 F, 563, fig. 436.
1919 A, 648, figs. 513, 516.
1920 A, 394, fig. 612.
1922 C, 341, fig. 298.
1925 A, 218, figs. 156, 157, 159, 160, 162, 165.
Anonymous 1905 B, 205.
1911 A, 301.
1912 C, 509 ("Triceratops").
1923 A, 192.
Ballou, W. H. 1897 A, 21.
Bigot, A. 1897 A, 463, figs. 1, 6.
Bowen, C. F. 1915 A, 138.
Brown, B. 1906 A, 297, pl. xl.
1917 A, 297.
1919 A, 413, 427, fig. ("Triceratops").
Drevermann, F. 1913 A, 10, fig. 1.
Du Toit, P. J. 1913 A, 247.
Gaudry, A. 1893 A, 22.
Gilmore, C. W. 1905 B, 433, pls. i, ii.
1914 B, 5.
1916 D, 286, fig. 29.
1917 A, 10.
1922 C, 387, pl. vii.
1922 F, 3, pl. iii.
1924 A, 68 (This species?).
1924 D, 27 (This genus?).
Gregory, W. K. 1923 B, 192.
1927 C, 175, fig. 5.
Hatcher, J. B. 1907 A, 14, 127, 300, pl. iv, figs. 7, 8; pl. v, figs. 5, 6; pls. vii-xvii, xxx-xxxvi; text-figs. 5, 29, 35, 37, 40, 41, 49-58, 63-67, 71, 109, 110.
Henning, C. L. 1914 A, 770, fig. 2.
Huene, F. 1908 B, 374, fig. 335.
1909 A, 131.
1911 C, 150, figs. 3, 4, 10.
Jaekel, O. 1911 A, 162, fig. 180.
Janensch, W. 1926 A, 193.
Lull, R. S. 1907, in Hatcher, J. B. 1907 A, 47.
1907 B, 168, 189, 300, pls. vi-xvii, xxx-xxxvi; text-figs. 35, 37, 40, 41, 49-58, 63-67, 71, 109, 110, 124, 125.
1908 B, 387.
1912 B, 775, fig.
1915 D, 342, 343.
Lydekker, R. 1905 A, 304.
Matthew, W. D. 1924 F, 118, fig.

Merrill, G. P. 1907 A, 79.
Nopcsa, F. 1902 B, 97.
Osborn, H. F. 1902 I, 14.
1904 F, 18, 45.
Parks, W. A. 1925 D, 7, 8.
Schuchert, C. 1905 A, 458, pl. xv.
1910 A, 596.
Sternberg, C. M. 1924 A, 68 (This species?).
Woodward, A. S. 1922 C, 21, fig. 15.
Woodward, H. 1906 A, 228-229, with 1 fig.
Zittel and Broili 1911 A, 296, fig. 447.
1923 A, 365, fig. 478.
Zittel, Eastman, etc. 1902 A, 244, fig. 350.
Upper Cretaceous (Lance); Wyoming.

Triceratops serratus Marsh.

Hay, O. P. 1902 A, 499.
Abel, O. 1925 A, 227, figs. 166, 167.
Bowen, C. F. 1915 A, 138.
Brown, B. 1907 A, 842.
1914 E, 358.
Gilmore, C. W. 1917 A, 14.
1919 A, 105, text-figs. 2, 3.
Hatcher, J. B. 1907 A, 122, 300, pl. ii, fig. 4; pls. xxvii-xxix; text-figs. 16, 26, 32, 34, 42, 68, 72.
Hay, O. P. 1909 A, 95, pl. i, fig. 1; pl. ii, fig. 1; pl. iii, figs. 1-3.
Huene, F. 1911 C, 148, 150, fig. 5.
1914 C, 584.
Lambe, L. M. 1902 A, 69.
Lull, R. S. 1903 A, 685, pls. lix, lx; text-fig. 1.
1907 B, 163, 169-300, pls. xxvii-xxix; text-figs. 16, 26, 32, 34, 42.
1908 B, 387, pls. i-iii; text-fig. 6.
1912 A, 212.
1915 D, 343, 344.
Moodie, R. L. 1923 B, 124, pl. xxvi.
Osborn, H. F. 1902 I, 14.
Parks, W. A. 1925 D, 8.
Pompeckj, J. F. 1920 A, 116, fig. 3.
1921 A, 1, 5.
Schuchert, C. 1910 A, 596.
Stromer, E. 1912 A, 89, fig. 90.
Zittel and Broili 1911 A, 296, fig. 446.
Upper Cretaceous (Hell Creek); Montana: (Lance); Wyoming.

Triceratops sulcatus Marsh.

Hay, O. P. 1902 A, 499.
Bowen, C. F. 1915 A, 138.
Gilmore, C. W. 1917 A, 13.
Hatcher, J. B. 1907 A, 133, 300, pls. vi, xxxvii; text-figs. 112, 113.
Hay, O. P. 1909 A, 96, pl. i, fig. 2; pl. ii, fig. 2; pl. iii, fig. 4.
Huene, F. 1908 B, 360, fig. 328.
1911 C, 162.
1914 C, 584.
Lull, R. S. 1907 B, 170, 300, pl. xxxvii, fig. 1; text-figs. 112, 113.
1915 D, 343.
Osborn, H. F. 1902 I, 14.
Pompeckj, J. F. 1920 A, 116, fig. 3.
1921 A, 5.
Schuchert, C. 1910 A, 596.
Upper Cretaceous (Lance); Wyoming.

Triceratops sp. indet.

Hay, O. P. 1902 A, 499.
Bowen, C. F. 1918 A, 231. Upper Cretaceous (Ferris); Wyoming.
Brown, B. 1907 A, 842. Upper Cretaceous (Hell Creek); Montana.
Gilmore, C. W. 1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
1926 J, 28. Upper Cretaceous (Lance); Wyoming.
Hay, O. P. 1903 D, 119.
Janensch, W. 1926 A, 192, figs. 1, 2. Upper Cretaceous; Mexico.
Moodie, R. L. 1923 B, 245, 266.
Parks, W. A. 1924 B, 38 (This genus?). Cretaceous (Belly River); Alberta.
1925 B, 226 ("new genus"). Alberta.
Stanton, T. W. 1910 B, 183.
Sternberg, C. M. 1924 A, 68. Upper Cretaceus (Lance); Saskatchewan.
Todd, J. E. 1908 A, 87, pl. xxiii. Upper Cretaceous (Laramie); South Dakota.
Young and Cooper 1927 A, 5, 7.

PENTACERATOPS Osborn. Type *P. sternbergii* Osborn.

Osborn, H. F. 1923 C, 1.
Nopcsa, F. 1928 A, 185.

Pentaceratops sternbergii Osborn.

Osborn, H. F. 1923 C, 1, fig. 1.
Reeside, J. B. 1924 A, 21, 24.
Upper Cretaceous (Fruitland); New Mexico.

AGATHAUMAS Cope. Type *A. sylvestris* Cope.

Cope, E. D. 1872 QQ, 2.
Hay, O. P. 1902 A, 498.
Abel, O. 1912 F, 565.
1922 C, 340 (Agathauma).
Case, E. C. 1898 C, 641.
Gill, T. 1876 A, 153.
Gilmore, C. W. 1917 A, 19.
1922 C, 382.
Hatcher, J. B. 1907 A, 104, 295.
Hay, O. P. 1910 B, 301.
Hoernes, R. 1886 A, 618.
Huene, F. 1909 B, 18.
Lull, R. S. 1907 B, 161, 162, 168, 295.
1912 B, 774.
Nat. Sci. 1898 A, 230.
Nopcsa, F. 1901 A, 270.
Peale, A. C. 1876 A, 153.
Seeley, H. G. 1892 D, 85.
Williston, S. W. 1925 B, 296.
Zittel, Eastman, etc. 1902 A, 244 (Syn. of Triceratops).

Agathaumas sylvestris Cope.

Cope, E. D. 1872 QQ, 2.
Hay, O. P. 1902 A, 498.
Ballou, W. H. 1897 A, 21.
Bowen, C. F. 1915 A, 136.
Cope, E. D. 1872 VV, 1.
1874 B, 435, 442, 445.
1891 N, 43 (A. sylvestre).
Cross, W. 1896 A, 228 ("Agathaumas").
1909 A, 41.
Hatcher, J. B. 1896 A, 113.
1907 A, 4, 105, 295, pl. xxv.
Knowlton, F. H. 1909 A, 215.
1922 A, 8, 25, 63, 64.
Lull, R. S. 1907 B, 168, 295, pl. xxv.
Nopcsa, F. 1901 B, 216 (Monoclonius crassus, a syn.).
Osborn, H. F. 1902 I, 14 (A. sylvestre).

Upper Cretaceous (Black Buttes); Wyoming.

POLYONAX Cope. Type *P. mortuarius* Cope.

Hay, O. P. 1902 A, 498 (Agathaumus, in part).
Hatcher, J. B. 1907 A, 111, 299 (A doubtful genus).
Huene, F. 1909 B, 18.
Lull, R. S. 1907 B, 299.
Nopcsa, F. 1901 A, 270 (Syn. of Monoclonius).
Reynolds, S. H. 1897 A, 271, 274, 277, 284.

A genus of doubtful validity.

Polyonax mortuarius Cope.

Hay, O. P. 1902 A, 498 (Agathaumus).
Bowen, C. F. 1915 A, 138, 150.
Cope, E. D. 1874 B, 433, 448, 451.
Cross, W. 1896 A, 244.
Gilmore, C. W. 1924 C, 26.
Hatcher, J. B. 1902 C, 381, 385 (Polygonax).
1907 A, 5, 8, 112, 299.
Lambe, L. M. 1902 A, 68.
Lull, R. S. 1907 B, 166, 299.
Osborn, H. F. 1902 I, 14 (Polponax).

Upper Cretaceous (Denver or Arapahoe); Colorado.

Superfamily STEGOSAUROIDÆ, new form.

Unless otherwise indicated the authors, as cited, use the name Stegosauria for this group.

Hay, O. P. 1902 A, 495 (Stegosauroidea).
Arldt, T. 1907 D, 683.
Berkey, C. P. 1923 A, 3.
Brown, B. 1907 B, 392 ("stegosauroid dinosaur").
Cannon, G. L. 1894 A, 245 ("stegosaurs").
1906 B, 197.
Case, E. C. 1897 D, 88.
Depéret, C. 1912 A, 705 ("stégosauridés").
Dollo, L. 1889 H, 678 ("stégosauriens").
1905 B, 251 ("prédentariens bipèdes").
Fraas, E. 1911 B, 33 ("stegosaurier").
Fürbringer, M. 1888 A, 1620.
Gadow, H. 1901 B, 425 (Stegosauri).
Geinitz and Deichmüller 1882 B, 15 (Stegosauria).
Gilmore, C. W. 1914 A, 101, 102 (Stegosauridea).
Günther, A. 1886 A, 443 (Stegosauria).
Hatcher, J. B. 1905 B, 102.
1907 A, 156, 299.
Hennig, E. 1912 B, 100 ("stegosaurier").
1915 A, 576 ("stegosaurier").
1915 B, 223.
1915 D, 1-16.
1916 A, 175 ("stegosaurier").
1924 A, 119, 127, 128, 133.
Hoernes, R. 1886 A, 614.
Hoffmann, C. K. 1890 B, 1311 (Stegosauria).
Hooley, R. W. 1912 A, 448, 449.
Huene, F. 1908 B, 370 ("stegosaurier").
1914 A, 145.
Johnson, A. 1883 A, 408.
Koken, E. 1893 B, 365, 397 ("stegosaurier").
1900 A, 464.
Lambe, L. M. 1918 A, 23, 35 (Psalisauria).
Lull, R. S. 1907 B, 279.
1910 A, 3, 18.
1912 A, 211.
1915 C, 325.
1915 F, 837.
1917 B, 505, 522.
1918 C, 131.
1924 A, 237, 241, 263.
Lydekker, R. 1912 C, 121.
Matthew, W. D. 1915 C, 32, 101.
Mook, C. C. 1918 A, 467 ("stegosaurs").
Nopcsa, F. 1901 A. 276 ("stegosaurier").
1902 B, 93 ("bepanzerte dinosaurier").
1917 A, 209 (Stegosauridæ).
1922 A, 115 (Thyreophora).
1923 A, 199 (Thyreophora).
1928 A, 185 (Thyreophoroidea).
Osborn, H. F. 1902 I, 17.
1903 G, 837.
1904 Q, 690.
Palacký, J. 1902 B, 141 ("stegosaurier").
Peale, A. C. 1912 A, 748.
Romer, A. S. 1927 C, 226, 238, 251, 258.
Seeley, H. G. 1888 G, 168, 171.
Simpson, G. G. 1926 H, 208 (Ornithopoda, Stegosauria).
Van den Broeck, E. 1900 A, 85.
Williston, S. W. 1925 A, 95, 170, 176.
1925 B, 214, 295.
Woodward, A. S. 1922 C, 20 (Stegosauria).
Zittel and Broili 1911 A, 293.
1923 A, 359 (Stegosauridæ).

SCELIDOSAURIDÆ Huxley.

Huxley, T. H. 1869 K, 146.
Abel, O. 1919 A, 639 (Stegosaurinæ).
Gilmore, C. W. 1920 A, 65.
Günther, A. 1886 A, 443.
Hoffmann, C. K. 1890 B, 1308, 1311.
Huxley, T. H. 1870 D, 34.
Lydekker, R. 1888 B, 180.
Marsh, O. C. 1895 C, 497, pl. x, fig. 6.

Marsh, O. C. 1896 A, 4, fig. 1 (Scelidosaurus).
1896 C, 243, pl. lxxxiii.
Matthew, W. D. 1921 D, 211.
Nicholson and Lydekker 1889 A, 1160.
Nopcsa, F. 1928 A, 185 (Scelidosaurinæ).
Owen, R. 1861 A, 1-14, pls. i-vi (Scelidosaurus).
Owen, R. 1863 B, 1-26, pls. i-xi (Scelidosaurus).
1875 C (Scelidosaurus).
Romer, A. S. 1927 C, 226.
Zittel, K. A. 1890 A, 741.
Zittel and Broili 1911 A, 293 (Stegosauridæ, in part).

HOPLITOSAURUS Lucas. Type *Stegosaurus marshi* Lucas.

Lucas, F. A. 1902 F, 435.
Gilmore, C. W. 1909 A, 300.
1914 A, 114.
Hennig, E. 1924 A, 124.
Huene, F. 1909 B, 17.
1909 E, 442.
Lull, R. S. 1921 A, 115, 124.
1924 A, chart.
Romer, A. S. 1927 C, 226 (To Acantholidæ).

Hoplitosaurus marshi (Lucas).

Lucas, F. A. 1901 D, 591, pls. xxiii, xxiv (Stegosaurus).
Gilmore, C. W. 1909 A, 300 [H. (Stegosaurus)].
1914 A, 114, pls. xxvi-xxx; text-figs. 69-71.
Gilmore, C. W. 1920 A, 65.
Hennig, E. 1924 A, 124.
Lucas, F. A. 1902 F, 435 (Stegosaurus, replaced by Hoplitosaurus).
Lull, R. S. 1921 A, 117, 124.
Merrill, G. P. 1907 A, 77 (Stegosaurus).
Mook, C. C. 1916 A, 145.
Nopcsa, F. 1917 A, 211.
Jurassic or Lower Cretaceous (Lakota); South Dakota.

Hoplitosaurus? sp. indet.

Brown, B. 1920 A, 65.
Gilmore, C. W. 1920 A, 65, pl. xxvi, fig. 2; text-fig. 37 ("armored dinosaur").
Upper Cretaceous (Ojo Alamo); New Mexico.

STEGOPELTA Williston. Type *S. landerensis* Williston.

Williston, S. W. 1905 C, 504.
Eastman, C. R. 1913 B, 678.
Gilmore, C. W. 1914 A, 100, 118.
1920 A, 67.
Hennig, E. 1924 A, 127.
Huene, F. 1909 E, 442.
Lull, R. S. 1910 A, 18.
1921 A, 124.
Moodie, R. L. 1911 F, 257.
Nopcsa, F. 1915 B, 13, 18.
1917 A, 211.
1918 C, 326, fig. 12.
1928 A, 185.
Pompeckj, J. F. 1921 A, 7.
Romer, A. S. 1927 C, 226.
Wieland, G. R. 1911 A, 112, 116.
1912 A, 287.
Wieland, G. R. 1912 B, 300.
Williston, S. W. 1908 J, 630 (Ankylosaurus a syn.).
1909 A, 398.
1909 E, 194.
Zittel and Broili 1911 A, 294.
1923 A, 362.

Stegopelta landerensis Williston.

Williston, S. W. 1905 C, 504.
Gilmore, C. W. 1920 A, 67, pl. xxvi, fig. 1.
Hennig, E. 1924 A, 125, 127.
Moodie, R. L. 1911 F, 257, pls. lv-lix.
1913 A, 248.
Wieland, G. R. 1911 A, 112.
Upper Cretaceous (Benton); Wyoming.

STEGOSAURIDÆ Marsh.

Hay, O. P. 1902 A, 495.
Abel, O. 1919 A, 639 (Stegosauridæ, Stegosaurinæ).
1922 C, 380 ("stegosaurier").
1925 A, 211 ("stegosauriden").
Arldt, T. 1907 D, 683.
1909 A, 263 ("stegosauriden").
1912 A, 668, 679.
Gadow, H. 1896 C, 205 (Stegosauri).
Gilmore, C. W. 1918 A, 475 ("stegosaurs").
1918 C, 383.
1921 E, 589.
1924 E, 43.
Günther, A. 1886 A, 443.
Heilmann, G. 1915 A, 116.
Henning, C. L. 1914 A, 771 ("stegosaurier").
1924 A, 123.
Hoernes, R. 1886 A, 614.
Hoffmann, C. K. 1890 B, 1311.
Huene, F. 1908 B, 372.
Huene, F. 1909 B, 17.
Jaekel, O. 1914 A, 197 ("stegosauriden").
Janensch, W. 1914 B, 83.
1925 B, 270 ("stegosauriden").
Koken, E. 1900 A, 464.
Lambe, L. M. 1918 A, 32.
Lucas, F. A. 1901 J, 106 ("stegosaurs").
Lull, R. S. 1924 A, 242, 264.
Matthew, W. D. 1915 C, 32.
Nopcsa, F. 1901 A, 262.
1902 B, 101.
1903 D, 267 ("stegosauriden").
1907 A, 231.
1911 A, 147.
1912 A, 481 ("stegosaurs").
1915 B, 13.
1917 A, 209.
1918 C, 328.
1922 A, 115.

Nopcsa, F. 1923 H, 103, 104, 126 (Stegosauridæ, Stegosaurinæ).
1928 A, 185 (Stegosauridæ, Stegosaurinæ).
Owen, R. 1875 C.
Reynolds, S. H. 1897 A, 209 (Stegosauria).
Romer, A. S. 1927 C, 226.
Steinmann, G. 1907 A, 451.
Van den Broeck, E. 1900 A, 101.
Wieland, G. R. 1911 A, 112, 118.
Zittel and Broili 1911 A, 293.
1923 A, 336, 361, 366.
Zittel, Eastman, etc. 1902 A, 241.

STEGOSAURUS Marsh. Type *S. armatus* Marsh.

Hay, O. P. 1902 A, 495.
Abel, O. 1907 B, (76).
1908 D, (215).
1909 F, 461.
1910 D, 6.
1911 A, 161.
1912 F, 72, 564, 591, 702, fig. 218.
1916 A, 471, fig. 3.
1919 A, 639, 645, fig. 511.
1920 A, 387, 393, fig. 603.
1922 C, 358, 428, fig. 308.
1924 A, 716.
1925 A, 191, figs. 139, 147.
Berkey, C. P. 1923 A, 3.
Brauns, D. 1890 A, 187.
Broili, F. 1908 A, 14.
Brown, B. 1908 B, 196.
Case, E. C. 1898 C, 640.
Cope, E. D. 1880 U, 146 (Hypsirhophus).
Darton, N. H. 1908 A, 446.
1915 A, 67, pl. x.
Depéret, C. 1896 A, 185.
1912 A, 705.
Dollo, L. 1905 B, 251.
1906 A, 444, 445.
Fraas, E. 1902 A, 80.
Gadow, H. 1901 B, 425.
Gaudry, A. 1896 A, 61, 145.
1898 A, 127.
Gilmore, C. W. 1909 A, 199.
1912 B, 693.
1912 C, 972.
1914 A, 101, 103, 122, pl. xix, fig. 2; pl. xxi, fig. 1; pl. xxv, fig. 5; pls. xxxiii, xxxv; text-figs. 8-10, 14, 18-20, 29, 32, 33, 36, 37, 45, 48-50, 52-54, 61-64.
1915 B, 355.
1915 C, 52, pl. x.
1915 D, 411, 488.
1918 A, 475, figs. 1, 2.
1918 C, 383.
1919 A, 111.
1920 C, 275.
1924 G, 17, 21, 26.
1925 B, 408.
Granger and Gregory 1923 A, 3.
Gregory, W. K. 1901 A, 145.
1916 D, 106.
1920 A, 127.
Hatcher, J. B. 1901 C, 326.
1901 D, 5.
1905 B, 102.
1907 A, 299.
Heilmann, G. 1913 B, 33.
1926 A, 207.
Heilprin, A. 1887 A, 162.
Hennig, E. 1915 B, 220.
1916 A, 178.
1924 A, *passim.*
1925 A, 108.
Hoernes, R. 1886 A, 614.
Holland, W. J. 1912 A, 204, 205, 206.
Hooley, R. W. 1925 A, 9.
Huene, F. 1905 B, 346.
1906 B, 151, fig. 96.
1908 B, 289, 361.
1909 B, 16, 17 (Hypsirrophus).
1910 A, 77.
1914 C, 580, pl. x, figs. 2-4.
1914 G, pl. vii.
Hutchinson, H. N. 1917 A, 363.
Jaekel, O. 1909 C, 707.
Janensch, W. 1925 B, 272.
Knipe, H. R. 1912 A, 90, fig.
Lankester, E. R. 1905 A, 208, fig. 150.
Lebedinsky, N. G. 1913 A, 768.
1913 B, 197.
Lee, Stone, Gale 1915 A, 52, pl. x.
Loomis, F. B. 1901 A, 195.
Lucas, F. A. 1901 J, 106, fig. 24.
1902 B, 170.
1902 C, 643, pl. iv.
1902 E, 469.
1907 A, 47.
1910 A, 73.
Lull, R. S. 1907 B, 299.
1910 A, 3.
1910 B, 1.
1910 C, 361.
1911 B, 176.
1912 C, 672.
1914 D, 358.
1915 C, 325, 332.
1915 F, 837, 905. pl. xxxii, fig. 5.
1917 A, 473, 474.
1917 B, 222, 297, 524.
1918 C, 130.
1921 A, 115.
1924 A, 242, 263, 265, 275, fig. 30.
Lydekker, R. 1885 G, 29.
1903 D, 76.
1910 D, 459.
1911 A, 682.
1912 C, 122.
1915 B, 276.
Matthew, W. D. 1915 C, 31, 102.
Moodie, R. L. 1911 F, 262.
1915 I, 156.
Nopcsa, F. 1901 A, 269.
1902 B, 96.
1902 C, 168.
1905 B, 244.
1905 C, 292.
1911 A, 109, 145, 153.
1911 B.
1912 A, 481.
1915 B, 11.
1917 A, 209.
1917 B, 340, 344, fig. 11.
1918 B, 236, 239.

Nopcsa, F. 1918 C, 326.
1923 A, 195, 198.
1923 D, 106.
1923 H, 103, 197.
1925 A, 19.
1925 B, 11.
1928 A, 185.
Osborn, H. F. 1904 I, 35.
1917 B, 224.
Peck, F. B. 1904 A, 32.
Petronievics, B. 1919 A, 409, 413.
Reed, W. H. 1909 A, 199.
Reynolds, S. H. 1897 A, 272, 280.
Romer, A. S. 1927 C, 226, figs. 3, 8, 12, 20.
Schuchert, C. 1910 A, 582.
1918 B, 252, 254.
Schuchert and Levene 1927 A, 322, fig.
Seeley, H. G. 1887 E, 210.
1888 G, 168 fig.
1892 D, 81.
Seitz, A. L. L. 1907 A, 320.
Shufeldt, R. W. 1916 B, 40.
Simpson, G. G. 1926 H, 205, 206, 208, 209.
1926 I, 454.
Steinman, G. 1907 A, 451.
1909 A, 74, fig. 8.
Sternberg, C. M. 1921 B, 97.
1927 B, 137.
Sternfield, R. 1909 A, 382.
Tornier, G. 1913 B, 373.
Whitnal, H. O. 1925 A, 17.
Wieland, G. R. 1911 A, 112, 118.
1912 A, 287.
1912 B, 300.
Williston, S. W. 1905 B, 346.
1909 A, 397.
1925 A, 149, 150, 175, figs. 122, 141.
Woodward, H. 1904 A, 147.
1904 B, 147.
Zittel and Broili 1911 A, 293.
1923 A, 361.
Zittel, Eastman, etc. 1902 A, 230 (Hypsirophus); 241 (Stegosaurus).

Stegosaurus affinis Marsh.

Hay, O. P. 1902 A, 496.
Gilmore, C. W. 1914 A, 101, 102, 104.
Hennig, E. 1924 A, 119.
Mook, C. C. 1916 A, 144.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado or Wyoming.

Stegosaurus armatus Marsh.

Hay, O. P. 1902 A, 496.
Dollo, L. 1889 H, 678.
Gilmore, C. W. 1914 A, 103, pl. x.
Hennig, E. 1915 B, 223 (Syn. of S. ungulatus).
1924 A, *passim*.
Mook, C. C. 1916 A, 143.
Nopcsa, F. 1911 B, 6, pls. vi, vii (Omosaurus).

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Stegosaurus? discurus (Cope).

Hay, O. P. 1902 A, 496.
Gilmore, C. W. 1914 A, 102, 104.
Hennig, E. 1924 A, 119, 121 (Hypsirophus discursus).
Mook, C. C. 1916 A, 141 (Hypsirophus); 144 (Stegosaurus).
Osborn and Mook 1919 A, 390 (Hypsirhophus).

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

A species of doubtful position.

Stegosaurus duplex Marsh.

Hay, O. P. 1902 A, 496.
Gilmore, C. W. 1914 A, 55, 102, 103, 104.
Hennig, E. 1924 A, 119, 120.
Lull, R. S. 1910 C, 366.
Mook, C. C. 1916 A, 145.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado or Wyoming.

Stegosaurus longispinus Gilmore.

Gilmore, C. W. 1914 A, 83, 95, 111, pl. xxv, fig. 4; text-figs. 60, 66-68.
1914 A, 81, fig. 45 (S. altispinus, *errore*).
Hennig, E. 1924 A, 127, folder, fig. 3.
Lull, R. S. 1919 B, 237.
Mook, C. C. 1916 A, 145.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Stegosaurus seeleyanus (Cope).

Hay, O. P. 1902 A, 496.
Gilmore, C. W. 1914 A, 102, 104.
Hennig, E. 1924 A, 119, 121 (Hypsirophus).
Mook, C. C. 1916 A, 144.

Locality and level uncertain; probably from Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Stegosaurus stenops Marsh.

Hay, O. P. 1902 A. 496.
Abel, O. 1919 A, 643, fig. 509.
1922 C, 428, figs. 357, 358.
1925 A, 199, figs. 138, 146.
Brown, B. 1919 A, 409, fig. ("animal").
Eisler, P. 1895 A, 52.
Gilmore, C. W. 1912 C, 972.
1914 A, 1, 4, 104, pls. ii-ix, xi-xvii, xix, fig. 1; pl. xx, figs. 1, 2; pl. xxi, fig. 3; pls. xxii, xxiii, figs. 4-6; pls. xxiv, xxv, figs. 1, 2; pl. xxxiv; text-figs. 3-7, 12, 13, 16, 23, 31, 40, 42, 45, 58.
1915 B, 355, pl. lii; text-fig. 1.
1918 B, 59, 62.
1918 C, 383, pls. lvii-lxiii.
1920 C, 276, pl. iv.
1921 F, 66 ("Stegosaurus").
Hennig, E. 1915 B, 223, 225.
1924 A, *passim*, folder, fig. 1.
Huene, F. 1914 C, pl. x, fig. 1.
Janensch, W. 1925 B, *passim*.
Lull, R. S. 1910 B, 208.
1919 B, 237.
1921 A, 117.
Lydekker, R. 1915 B, 276 (S. stereops).
Marsh, O. C. 1887 C, 416, pl. ix (Diracodon laticeps).
1888 D, 11, pl. iii (D. laticeps).
1896 C, 193, pl. ii (D. laticeps).
Merrill, G. P. 1907 A, 77.

Mook, C. C. 1916 A, 144.
Pompeckj, J. F. 1920 A, 119.
Shufeldt, R. W. 1916 B, 40, figs. 1, 2.
Woodward, A. S. 1898 A, 212, fig. 131.
Zittel and Broili 1911 A, 293, fig. 442.
1923 A, 360, fig. 472.
Zittel, Eastman, etc. 1902 A, 242, fig. 346.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado, Wyoming.

Stegosaurus sulcatus Marsh.

Hay, O. P. 1902 A, 496.
Abel, O. 1919 A, 644, fig. 510.
1922 C, 431, figs. 359, 360.
Gilmore, C. W. 1909 A, 198.
1914 A, 4, 69, 73, 109, pls. xviii, xx, figs. 3, 4; pl. xxiii, figs. 1-3; pl. xxv, fig. 3; text-figs. 38, 39, 41, 57, 65.
Hennig, E. 1924 A, 119, 120.
Lull, R. S. 1910 B, 209, fig. 11.
Merrill, G. P. 1907 A, 77.
Mook, C. C. 1916 A, 145.
Upper Jurassic or Lower Cretaceous (Morrison); Colorado?, Wyoming.

Stegosaurus ungulatus Marsh.

Hay, O. P. 1902 A, 496.
Abel, O. 1909 F, 462, fig. 4.
1912 F, 297, fig. 219.
1919 A, 642, fig. 508.
1920 A, 394, fig. 611.
1922 C, 381, 427, fig. 356.
1925 A, 193, figs. 133-137, 140-145, 149, 150.
Ballou, W. H. 1897 A, 21, 22, fig.
Beard, J. C. 1901 A, 185, fig. 1.
Bigot, A. 1897 A, 465, figs. 5, 9.
Boule, M. 1902 B, 907, figs. 9, 15.
Gadow, H. 1901 B, 426, fig. 100.
Gaudry, A. 1896 A, 145, fig. 118.
Geinitz and Deichmüller 1882 B, 14, 15.
Gilmore, C. W. 1914 A, 4, 142, pls. xxxii-xxxv, xxxvi; text-figs. 11, 15, 17, 21, 22, 24-28, 30, 35, 43-47, 51, 56, 59.
Heilmann, G. 1913 B, 35, figs. 77, 79.
Hennig, E. 1915 B, 223-225.
1924 A, *passim*, folder, fig. 2.
Hutchinson, H. N. 1910 A, 177, pl. xxvi; text-fig. 61.
Jaekel, O. 1911 A, 161, fig. 178.
Janensch, W. 1925 B, 267.
Lönnberg, E. 1910 A, 18.
Lull, R. S. 1910 B, 203, figs. 1-5, 7-10.
1910 C, 361, pl. ii; text-figs. 1-10.
1911 C, 209.
1912 C, 672, figs. 1-4.
1917 A, 475.
1917 B, 524, pl. xii; text-figs. 164, 165.
1919 B, 237.
1921 A, 117.
Mook, C. C. 1916 A, 144.
Nopcsa, F. 1902 B, 97.
1911 A, 113, 149, 153.
1911 B, 14, 18.
Parks, W. A. 1926 A, 10.
Peck, F. B. 1904 A, 33.
Stromer, E. 1912 A, 121, fig. 118.
Tornier, G. 1913 B, 373.
Zittel and Broili 1911 A, 293, figs. 443-444.
1923 A, 361, figs. 473, 474.
Zittel, Eastman, etc. 1902 A, 242, figs. 347, 348.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming, Colorado.

Stegosaurus sp. indet.

Mook, C. C. 1916 A, 96. Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.
Simpson, G. G. 1926 E, 3. Upper Jurassic; Wyoming.

DIRACODON Marsh. Type *D. laticeps* Marsh.

Hay, O. P. 1902 A, 496.
Hennig, E. 1924 A, 120, 122, 124, 129.
Hoernes, R. 1886 A, 615.
Huene, F. 1909 B, 17.
Lull, R. S. 1911 C, 208.
1915 C, 333.
Marsh, O. C. 1888 B, 93 (Diracondon).
Nopcsa, F. 1901 A, 267.
1911 A, 115, 146.
1917 A, 209.
1928 A, 185.
Zittel and Broili 1911 A, 294.
Zittel, Eastman, etc. 1902 A, 243.
Not improbably a synonym of Stegosaurus.

Diracodon laticeps Marsh.

Hay, O. P. 1902 A, 496 (in part, Diracondon, *errore*).
Gilmore, C. W. 1909 A, 198, pl. vi.
1912 B, pl. lv.
Hennig, E. 1924 A, 120.
Merrill, G. P. 1907 A, 70.
Mook, C. C. 1916 A, 145.
Jurassic (Morrison); Wyoming.

NODOSAURIDÆ Marsh.

Hay, O. P. 1902 A, 497.
Abel, O. 1919 A, 653 (Nodosaurinæ, part of Ceratopsidæ).
1922 C, 339 (Nodosaurinæ).
Gilmore, C. W. 1921 E, 589.
Hatcher, J. B. 1907 A, 156.
Hennig, E. 1924 A, 123, 127, 129.
Huene, F. 1909 B, 17 (Omosauridæ).
Koken, E. 1900 A, 464 (Notosauridæ).
Lull, R. S. 1921 A, 123.
1924 A, 241, 243, 265.
Matthew, W. D. 1921 D, 211.
Nopcsa, F. 1912 A, 483.
1915 B, 13.
1917 A, 211.
1923 A, 199 (Nodosaurinæ, part of Acanthopholidæ).
1928 A, 185.

Romer, A. S. 1927 C, 226 (Ankylosauridæ).
Wieland, G. R. 1911 A, 112, 118, 119, figs. 4-7.
1912 A, 287.
Wieland, G. R. 1912 B, 299.
Zittel and Broili 1923 A, 362.

NODOSAURUS Marsh. Type *N. textilis* Marsh.

Hay, O. P. 1902 A, 497.
Depéret, C. 1896 A, 185.
1912 A, 705.
Gilmore, C. W. 1914 A, 118.
1923 B, 49.
Hatcher, J. B. 1907 A, 155.
Hennig, E. 1924 A, 126.
Huene, F. 1909 B, 17.
Lull, R. S. 1910 A, 18.
1921 A, 98.
1924 A, 243.
Lydekker, R. 1912 C, 123.
Nopcsa, F. 1901 A, 268.
1902 B, 96, 98.
1923 D, 106.
1923 H, 197.
1924 B, 85.
1928 A, 185.
Osborn, H. F. 1902 A, 674.
Pompeckj, J. F. 1921 A, 8.
Romer, A. S. 1927 C, 226.
Wieland, G. R. 1912 A, 287.
1912 B, 300.
Zittel and Broili 1923 A, 362.

Nodosaurus textilis Marsh.

Hay, O. P. 1902 A, 497.
Bowen, C. F. 1915 A, 134, 148, 149.
Gilmore, C. W. 1920 A, 67.
Hatcher, J. B. 1907 A, 155, fig. 120.
Hennig, E. 1924 A, 123.
Lull, R. S. 1912 A, 211.
1921 A, 98, pls. i-iv; text-figs. 1-7.
Moodie, R. L. 1911 F, 263.
Osborn, H. F. 1902 I, 14.
Whiteaves, J. F. 1901 A, 188.
Upper Cretaceous (Benton); Wyoming.

Nodosaurus sp. indet.

Whiteaves, J. F. 1901 A, 184. Upper Cretaceous (Belly River?); Alberta?.

PRICONODON Marsh. Type *P. crassus* Marsh.

Hay, O. P. 1902 A, 496.
Clark, Bibbins, Berry 1911 A, 67.
Gilmore, C. W. 1921 E, 588.
Hennig, E. 1924 A, 123, 129.
Huene, F. 1909 B, 17.
Lull, R. S. 1910 A, 29.
1911 C, 208.
Nopcsa, F. 1901 A, 219.
1902 B, 95.
Zittel, Eastman, etc. 1902 A, 243.

Priconodon crassus Marsh.

Hay, O. P. 1902 A, 496.
Clark, Bibbins and Berry 1911 A, 89.
Gilmore, C. W. 1921 E, 588, 591, pl. cx, fig. 3.
Hennig, E. 1924 A, 122, 153.
Lull, R. S. 1911 B, 176.
1911 C, 207, pl. xx, figs. 5, 6.
Merrill, G. P. 1907 A, 76.
Schuchert, C. 1910 A, 586.
Simpson, G. G. 1926 H, 207.
Lower Cretaceous (Arundel); Maryland.

DIOPLOSAURUS Parks. Type *D. acutosquameus* Parks.

Parks, W. A. 1924 C, 5.
Nopcsa, F. 1928 A, 185.

Dioplosaurus acutosquameus Parks.

Parks, W. A. 1924 C, 5-25, pls. i-iv.
Upper Cretaceous (Belly River); Alberta.

PALÆOSCINCUS Leidy. Type *P. costatus* Leidy.

Hay, O. P. 1902 A, 497.
Abel, O. 1924 A, 712, fig. 5.
Brown, B. 1914 E, 374.
Cope, E. D. 1880 U, 147.
Gilmore, C. W. 1923 B, 48.
1924 G, 8.
Hatcher, J. B. 1905 B, 102.
Hennig, E. 1915 B, 239.
1924 A, 123, 126, 128, 153.
Huene, F. 1909 B, 17 (=Stegopelta).
1909 E, 442.
Lambe, L. M. 1912 A, 9.
1920 B, 42.
Lull, R. S. 1910 A, 18.
1924 A, 243, 273.
Matthew, W. D. 1922 C, 333, figs. 2, 3, 5, 6.
Moodie, R. L. 1911 F, 261.
Mook, C. C. 1916 A, 155.
Nopcsa, F. 1901 A, 268.
1902 B, 101.
Nopcsa, F. 1917 A, 210, 211.
1923 H, 105, 197.
1928 A, 185.
Osborn, H. F. 1902 I, 17.
Peale, A. C. 1912 A, 748.
Simpson, G. G. 1926 H, 207.
Stanton and Hatcher 1905 A, 38.
Sternberg, C. H. 1903 C, 871.
Sternberg, C. M. 1928 A, 94.
Wieland, G. R. 1911 A, 117.
Williston, S. W. 1902 K, 953.
1905 B, 346.
1905 C, 504.
1909 E, 194.

Palæoscincus asper Lambe.

Lambe, L. M. 1902 A, 54, pl. xvii, fig. 5.
Bowen, C. F. 1915 A, 134, 148-150.
Gilmore, C. W. 1923 B, 48.
Hatcher, J. B. 1903 D, 372.

Hatcher, J. B. 1905 B, 88.
Hennig, E. 1924 A, 125, 153.
Lambe, L. M. 1904 C, 23, 37, 48.
1920 B, 42.
Nopcsa, F. 1918 C, 326, fig. 11 (P. rugosus).
Osborn, H. F. 1902 I, 13, 17.
Williston, S. W. 1902 K, 953.
Upper Cretaceous (Belly River); Alberta: (Lance); Wyoming.

Palæoscincus costatus Leidy.

Hay, O. P. 1902 A, 497.
Bowen, C. F. 1915 A, 134, 148, 150.
Brown, B. 1908 B, 191, fig. 6.
1914 E, 378.
Gilmore, C. W. 1920 A, 67.
1921 E, 588.
1923 B, 48.
1927 G, 1.
Hatcher, J. B. 1905 B, 82, 88.
Hay, O. P. 1910 B, 299.
Hennig, E. 1924 A, 115, 155.
Lambe, L. M. 1902 A, 53.
1904 C, 23, 37, 48.
Lull, R. S. 1911 B, 176.
1911 C, 208.
Nopcsa, F. 1902 B, 95.
1918 C, 326.
Osborn, H. F. 1902 H, 674.
1902 I, 13, 17.
Parks, W. A. 1924 C, 5.
Peale, A. C. 1912 A, 748, 754.
Stanton and Hatcher 1905 A, 50.
Sternberg, C. H. 1914 A, 134.
Sternberg, C. M. 1928 A, 102.
Upper Cretaceous (Judith River); Montana: (Belly River); Alberta: (Lance); Wyoming.

Palæoscincus latus Marsh.

Hay, O. P. 1902 A, 497.
Bowen, C. F. 1915 A, 134.
Cannon, G. C. 1906 B, 195 (This species?).
Hennig, E. 1924 A, 124, 155.
Marsh, O. C. 1896 C, 225, pl. lxxv.
Nopcsa, F. 1918 C, 326, fig. 7.
Osborn, H. F. 1902 I, 13, 17.
Upper Cretaceous (Lance); Wyoming, Colorado?.

Palæoscincus magoder Henning.

Henning, C. L. 1919 A, 771 (nom. nud.).

Palæoscincus sp. indet.

Bowen, C. F. 1915 A, 134. Upper Cretaceous (Lance); Wyoming, Montana.
Brown, B. 1907 A, 842. Upper Cretaceous (Hell Creek); Montana: (Lance); Wyoming.
Marsh, O. C. 1896 C, 225. Upper Cretaceous (Lance); Wyoming.
Matthew, W. D. 1916 A, 484. Cretaceous; Alberta.
Williston, S. W. 1902 K, 952. Upper Cretaceous (Lance); Wyoming.

PANOPLOSAURUS Lambe. Type *P. mirus* Lambe.

Lambe, L. M. 1920 B, 39.
Nopcsa, F. 1928 A, 185.
Sternberg, C. M. 1921 B, 93.

Panoplosaurus mirus Lambe.

Lambe, L. M. 1920 B, 40, pls. i-xii.
Gilmore, C. W. 1923 B, 48.
Parks, W. A. 1924 C, 5, 7.
Sternberg, C. M. 1921 B, 93, pls. i, ii.
1928 A, 93.
Upper Cretaceous (Belly River); Alberta.

EDMONTONIA Sternberg. Type *E. longiceps* Sternberg.

Sternberg, C. M. 1928 A, 93.

Edmontonia longiceps Sternberg.

Sternberg, C. M. 1928 A, 93, pls. i-iii.
Upper Cretaceous (Edmonton); Alberta.

ANKYLOSAURIDÆ Brown.

Brown, B. 1908 B, 187.
1914 E, 377.
Arldt, T. 1909 A, 263 ("ancylosauriden").
Berkey, C. P. 1923 A, 4 ("ankylosaurs").
Gilmore, C. W. 1916 D, 287.
1920 A, 65.
1921 E, 589.
Hennig, E. 1912 B, 100 ("ankylosauriden").
1924 A, 126.
Huene, F. 1908 B, 408.
1909 B, 17 (Ancylosauridæ).
1909 E, 441 (Ancylosauridæ).
1914 G, pl. vii (Ancylosauria).
Jaekel, O. 1914 A, 197 ("ancylosauriden").
Lambe, L. M. 1918 A, 32.
Lull, R. S. 1918 C, 132 ("ankylosaurs").
1921 A, 124.
Lydekker, R. 1909 C, 461 (Anchylosauridæ).
Matthew, W. D. 1914 B, 387.
1915 C, 32.
Nopcsa, F. 1918 C, 327, 328.
1922 A, 115 (Ancylosauridæ).
1923 A, 199 (Ankylosaurinæ, part of Acanthopholidæ).
1923 H, 126, 197 (Ankylosaurinæ).
1928 A, 185 (Nodosauridæ).
Osborn, H. F. 1923 D, 3 (Ankylosauria).
Sternberg, C. M. 1921 A, 63.
Wieland, G. R. 1909 B, 252.
1911 A, 118.

ANKYLOSAURUS Brown. Type *A. magniventris* Brown.

Brown, B. 1908 B, 188.
Abel, O. 1909 F, 461.
  1912 F, 564.
  1916 A, 470, figs. 1, 3.
  1919 A, 653.
  1920 A, 387, fig. 603.
  1922 C, 339, 358.
  1924 A, 716.
Anonymous 1910 B, 8.
Brown, B. 1908 C, 54.
  1914 E, 377.
Campbell, M. R. 1915 A, 74.
Gilmore, C. W. 1914 A, 118.
  1915 C, 59, pl. xi.
  1915 D, 411, 488.
  1923 B, 49.
Huene, F. 1909 B, 17 (Ancylosaurus).
  1909 E, 441 (Ancylosaurus).
Lambe, L. M. 1918 A, 32.
  1920 B, 42.
Lull, R. S. 1910 A, 19.
  1910 B, 205, fig. 6.
  1917 B, 526.
  1921 A, 99, 124.
  1924 A, 243, 266.
Lydekker, R. 1911 A, 181 (Ancylosaurus).
Matthew, W. D. 1910 F, 8.
  1912 D, 219.
  1915 C, 103, figs. 35, 36.
  1920 D, 542.
Moodie, R. L. 1928 C, 1.
Nopcsa, F. 1911 B, 14.
  1915 B, 13.
  1917 A, 210, 211.
  1917 B, 340.
  1918 C, 326.
  1923 A, 195.
  1923 H, 105, 197.
Osborn, H. F. 1917 B, 225.
  1923 D, 3.
  1924 B, 6.
Pompeckj, J. F. 1921 A, 7, 11.
Romer, A. S. 1927 C, 226, figs. 3-5, 8, 12.
Simpson, G. G. 1926 H, 209.
Steinmann, G. 1909 A, 71.
Sternberg, C. M. 1921 B, 96.
  1928 A, 101.
Wieland, G. R. 1911 A, 117, 122.
  1912 A, 287.
  1912 B, 300.
Williston, S. W. 1908 J, 630.
  1909 E, 194.
  1925 A, 150.
Woodward, A. S. 1910 C, 13.
Zittel and Broili 1911 A, 294 (Syn. of Palæoscincus).
  1923 A, 362.

Ankylosaurus magniventris Brown, B.

Brown, B. 1908 B, 188, figs. 1-5, 9-20.
Abel, O. 1908 D (215), fig. 3.
  1912 F, 562.
Bowen, C. F. 1915 A, 134.
Brown, B. 1911 B, 279, fig. ("Ankylosaurus").
  1914 E, 358, 374.
  1915 B, 157, fig. 48 ("Ankylosaurus").
  1919 A, 413 ("Ankylosaurus").
Gilmore, C. W. 1920 A, 67.
Hay, O. P. 1910 B, 300.
Hennig, E. 1924 A, 126, 153.
Huene, F. 1909 E, 441 (Ancylosaurus).
Lydekker, R. 1909 C, 461.
Matthew, W. D. 1915 C, 103, figs. 35, 36 ("Ankylosaurus").
  1920 D, 539, fig.
Moodie, R. L. 1911 F, 270.
  1928 C, 1, pls. iii, v.
Parks, W. A. 1924 C, 6, 7.
Steinmann, G. 1909 A, 71, figs. 5, 7.
Sternberg, C. H. 1909 B, 257 (Anchylosaurus).
  1917 A, 94 (Anchylosaurus).
Sternberg, C. M. 1921 B, 95.
  1926 A, 104.
  Upper Cretaceous (Hell Creek); Montana.

Ankylosaurus sp. indet.

Gilmore, C. W. 1926 J, 28 (This genus?).
  Upper Cretaceous (Lance); Wyoming.

EUOPLOCEPHALUS Lambe. Type *Stereocephalus tutus* Lambe.

Unless otherwise indicated the authors, as quoted, use the name *Stereocephalus*.

Lambe, L. M. 1910 A, 151 (Euplocephalus; to replace *Stereocephalus* preoccupied).
Brown, B. 1908 B, 187, 190.
Gilmore, C. W. 1917 A, 3 (Europlocephalus).
Hatcher, J. B. 1905 B, 102.
Henning, C. L. 1914 A, 771.
Huene, F. 1909 B, 17.
Lambe, L. M. 1902 A, 55.
  1903 A, 60.
  1903 C, 468.
  1918 A, 32.
  1920 B, 40 (Euplocephalus).
Lull, R. S. 1911 A, 339 (Euoplocephalus).
  1921 A, 125.
Moodie, R. L. 1911 F, 261.
Nopcsa, F. 1903 D, 266.
  1905 B, 244.
  1917 A, 211 (Stereocephalus; a syn. of Ankylosaurus).
Nopcsa, F. 1918 C, 326.
  1923 H, 197 (Europocephalus).
  1928 A, 185 (Erroplocephalus).
Osborn, H. F. 1902 I, 9.
Peale, A. C. 1912 A, 748.
Steinmann, G. 1909 A, 73.
Sternberg, C. H. 1917 A, 96.
Sternberg, C. M. 1928 A, 94.
Wieland, G. R. 1911 A, 116, 117.

Euoplocephalus tutus Lambe.

Unless otherwise indicated, the authors, as cited, use the generic name *Stereocephalus*.

Lambe, L. M. 1902 A, 55, pl. xi; pl. xii, figs. 1-5; pl. xxi, figs. 6-8 (Euplocephalus).
Bowen, C. F. 1915 A, 134.
Brown, B. 1908 B, 191, 197, fig. 7.
Gilmore, C. W. 1917 A, 43 (Europlocephalus).
  1920 A, 67.
  1921 E, 589.
  1923 B, 47, 48, pls. ii, iii, iv, fig. 1.
Hatcher, J. B. 1905 B, 89.

Hatcher, J. B. 1907 A, 69.
Hay, O. P. 1910 B, 300.
Hennig, E. 1924 A, 125, 153.
Lambe, L. M. 1904 C, 23, 37, 48.
1910 A, 151 (To Euoplocephalus).
1914 B, 132.
1914 F, 298.
1915 B, 117.
1920 B, 39 (Euplocephalus).
Lull, R. S. 1911 A, 339.
Osborn, H. F. 1902 H, 674.
Osborn, H. F. 1902 I, 14, 17.
Parks, W. A. 1924 C, 7.
Sternberg, C. H. 1915 A, 133 ("Europlocephalus").
1918 A, 212.
Sternberg, C. M. 1926 A, 104.
1928 A, 101.
Upper Cretaceous (Belly River); Alberta.

Euoplocephalus sp. indet.

Gilmore, C. W. 1917 B, 4, 43, fig. 57. Upper Cretaceous (Two Medicine); Montana.

HIEROSAURUS Wieland. Type *H. sternbergii* Wieland.

Wieland, G. R. 1909 B, 250.
Abel, O. 1922 C, 339.
Gilmore, C. W. 1914 A, 118, pl. xxxi, fig. 2 (This genus?).
Hennig, E. 1924 A, 126.
Lull, R. S. 1921 A, 122.
1924 A, chart.
Nopcsa, F. 1915 B, 11.
1917 A, 211.
1923 D, 106.
1928 A, 185.
Wieland, G. R. 1911 A, 112, 113.
1912 A, 288.
Wieland, G. R. 1912 B, 300.
1925 A, 603.
Zittel and Broili 1923 A, 362.

Hierosaurus sternbergii Wieland.

Wieland, G. R. 1909 B, 250, figs. 1-7.
Gilmore, C. W. 1920 A, 67.
Hennig, E. 1924 A, 126 (H. sternbergi).
Moodie, R. L. 1911 F, 271.
Sternberg, C. H. 1909 B, 257 ("armored dinosaur").
Wieland, G. R. 1911 A, 114, 116, figs. 1-3.
Upper Cretaceous (Niobrara); Kansas.

TYLOSTEUS Leidy. Type *P. ornatus* Leidy.

Hay, O. P. 1902 A, 477.
Camp, L. C. 1923 A, 303.
Williston, S. W. 1925 B, 274.
A possible dinosaur of undetermined position.

Tylosteus ornatus Leidy.

Hay, O. P. 1902 A, 477.
Gilmore, C. W. 1927 G, 1, 6.
Cretaceous?; Montana (Head of Missouri River).

Subclass MONOTRETA, new name.

Superorder SQUAMATA Oppel.

Hay, O. P. 1902 A, 463.
Abel, O. 1919 A, 656 (Lepidosauria).
1920 A, 397 (Lepidosauria).
Arldt, T. 1907 D, 662 (Lepidosauria).
Bonaparte, C. L. 1833 B, 1184.
Boulenger, G. A. 1891 D, 113, 117.
1893 B, 206.
1904 C, 480.
Broili, F. 1904 D, 587 ("lepidosaurier").
1926 C, 33.
Broom, R. 1913 C, 508.
1924 B, 40, 65.
Case, E. C. 1905 C, 10.
Cope, E. D. 1891 N, 35, 45.
Day, H. 1915 A, 428.
Dollo, L. 1903 B, 138 ("lépidosauriens").
Fraas, E. 1905 B, 372.
Fuchs, H. 1911 B.
Fürbringer, M. 1904 A, 581.
Gervais, P. 1859 A, 454 ("sauriens").
Gilmore, C. W. 1927 G, 11, 14.
Goodrich, E. S. 1916 A, 263.
Gray, J. E. 1837 C, 131.
Gregory, W. K. 1913 E, 39.
Haeckel, E. 1868 A, 441 (Lepidosauria).
Hayek, H. 1924 A, 138.
Hilzheimer, M. 1913 A, 513 ("lepidosaurier").
Howes and Swinnerton 1901 A, 56.
Huene, F. 1925 D, 233, 238.
Huene, F. 1925 I, 249.
1926 I, 78, 81.
1927 E, 325.
Jaekel, O. 1910 C, 336.
1911 A, 152 (Lyognathi).
Kingsley, J. S. 1912 B, 93.
1925 A, 43.
Koken, E. 1898 A, 141.
Kornhuber, A. 1901 A, 150 (Lepidosauria).
Lull, R. S. 1917 B, 294.
Lydekker, R. 1912 C, 3, 4, 25, 27, 132.
Matthew, W. D. 1921 D, 211.
Moodie, R. L. 1908 D, 463.
Nitzsch, C. L. 1822 A, 82.
Nopcsa, F. 1922 A, 115, 116, 117 (Lepidosauria).
1923 E, 1048.
1923 H, 2, 5-7, 10, 56, 72, 74, 76 (Lepidosauria); 3, 8, 79, 85, 92, 94, 114, 124, 128, 162, 169 (Squammata); 7 (Liognathi).
1924 C, 206.
1925 A, 24 ("squamaten").
1926 A, 634.
1928 A, 174.
Osborn, H. F. 1903 H, 452, 454, 466, 504.
1904 H, 114.
1904 N, 308.
1905 C, 295.
Parker and Haswell 1897 A, 311.
Reynolds, S. H. 1897 A, 198, 272, 278, 280, 286.

Sewertzoff, A. N. 1908 A.
Stejneger, L. 1907 C, 162.
Stejneger and Barbour 1917 A, 42.
Stromer, E. 1912 A, 74, 125.
Thyng, F. W. 1906 A, 58.
Versluys, J. 1912 B, 626, 687 (Lepidosauria).
    1919 A, 27 (Lepidosauria).
Watson, D. M. S. 1921 B, 75 (Squamates).
Wegner, R. N. 1922 A, 480 (Lepidosauria).
Williston, S. W. 1902 G, 314.
    1904 A, 43, 48.
    1904 B, 176.
    1911 B, 92.
Williston, S. W. 1912 B, 661.
    1914 A, 17, 45, 138.
    1914 D, 392.
    1917 C, 417 (Squamata); 414, 416, 420 (Parapsida, in part).
    1925 A, *passim*.
    1925 B, 212, 264 (Squamata); 212 (Parapsida, in part).
Woodward, H. 1904 B, 144.
Zittel and Broili 1911 A, 207 (Lepidosauria).
    1923 A, 253 (Squamata); 221 (Parapsida, in part).
Zittel, Eastman, etc. 1902 A, 152.

Order ARÆOSCELOMORPHI, new name.

Abel, O. 1919 A, 654.
    1920 A, 394.
Baur, G. 1887 C, 103 (Proganosauria).
    1889 L, 311 (Proganosauria).
Brauns, D. A. 1890 A, 160 (Proterosauria).
Gadow, H. 1901 B, 290 (Protorosauri).
Huene, F. 1908 B, 378-386 (Protorosaurus).
Lydekker, R. 1888 B, 301 (Proterosauria).
Nicholson and Lydekker 1889 A, 1130 (Proterosauria).
Nopcsa, F. 1922 A, 115 (Aræoscelidæ); 116 ("araeoscelier").
    1923 E, 1055 (Areoscelia).
    1923 H, 4, 7, 9, 10 (Protorosauria); 125, tab. (Proterosauria).
    1924 C, 207 (Aræoscelia, Aræosceloidea).
Nopcsa, F. 1928 A, 173 (Aræoscelia); 174 (Aræosceloidea).
Williston, S. W. 1913 A, 825 (Aræoscelidia).
    1914 D, 400.
    1916 B, 235 (=? Protorosauria).
    1925 A, 62, 66 (Protorosauria).
    1925 B, 212, 259 (Protorosauria).
Zittel, K. A. 1890 A, 449 (Proterosauria); 592, 594 (Protorosauria).
Zittel and Broili 1911 A, 203 (Protorosauridæ).
    1923 A, 251 (Protorosauria).

A group of very uncertain position. Referred by Williston with doubt to Squamata or to the Protorosauria. Citations to the literature of the Protorosauria are presented above.

ARÆOSCELIDÆ Williston.

Williston, S. W. 1910 F, 587.
Arldt, T. 1912 A, 656.
Case, E. C. 1915 A, 99, 122, 145 (Areoscelidæ).
Eastman, C. R. 1912 C, 657.
Huene, F. 1913 B, 377.
    1925 D, 237, 238.
Nopcsa, F. 1924 C, 207.
    1928 A, 174.
Williston, S. W. 1911 B, 71.
    1911 C, 631.
    1916 B, 236.
    1925 B, 259.
Zittel and Broili 1923 A, 251.

ARÆOSCELIS Williston. Type *A. gracilis* Williston.

Williston, S. W. 1910 F, 587.
Abel, O. 1919 A, 654, 656.
    1920 A, 394.
Broili, F. 1926 C, 33.
Broom, R. 1913 D, 511.
    1924 B, 40, 63.
Camp, L. C. 1923 A, 310, 337, 347, etc., fig. 77.
Case, E. C. 1915 A, 102, 108, 145 (Areoscelis).
Gilmore, C. W. 1927 G, 11, 12, 100, text-figs. 3, 4.
Goodrich, E. S. 1916 A, 269.
Gregory, W. K. 1920 A, 130, fig. 48.
Haughton, S. H. 1924 A, 9.
Huene, F. 1925 D, 234, 236, fig. 9.
    1926 F, 469, 473.
    1926 I, 80, 81, 86.
    1927 E, 324.
Lydekker, R. 1915 C, 634.
Nopcsa, F. 1922 B, 166.
    1923 E, 1047.
    1923 H, 12, 68-71, 73, 74, 92, 169, pl. ii, fig. 7; pl. iv, fig. 6.
    1924 C, 206, 207.
    1928 A, 174.
Osborn, H. F. 1917 B, 186, fig.
    1918 D, 687.
Romer, A. S. 1922 B, *passim*, pl. xxxvii.
Sollas, W. J. 1916 A, 115.
Sushkin, P. P. 1927 A, 313.
Thorpe, M. R. 1926 A, 77.
Watson, D. M. S. 1913 D, 24 (Areoscelis).
    1914 B, 89, 94 (Acrosceles).
    1914 G, 1005.
    1917 C, 180.
Williston, S. W. 1911 B, 66.
    1911 F, 662
    1913 A, 825.
    1913 C, 743.
    1914 A, 133, 138, fig. 62.
    1914 D, 364, 400.
    1914 E, 121.
    1916 B, 236.
    1917 C, 418, fig. 4.
    1925 A, 11, 62, 113, 161, 172, 190, 192, 195, figs. 52, 53, 155.
    1925 B, 259, figs. 179, 180.
Zittel and Broili 1923 A, 252, 253.

Aræoscelis gracilis Williston.

Williston, S. W. 1910 F, 587, pl. i, figs. 4-19.
Abel, O. 1919 A, 654, fig. 517.
1920 A, 396, figs. 615, 616.
Case, E. C. 1915 A, 99, 146, text-fig. 31 (Areoscelis).
Gilmore, C. W. 1926 A, 9, 35, text-fig. ("Aræoscelis").
Huene, F. 1912 B, 56, fig. 4.
Osborn, H. F. 1918 D, 686.
Williston, S. W. 1913 C, 743, fig. 1.
1914 D, 364, figs. 1-5, 7, 8.
Permian (Clear Fork); Texas.

Order THALATTOSAUROMORPHI, new name.

Unless otherwise indicated, the authors, as cited, employ for this order the name Thalattosauria.

Abel, O. 1912 F, 123, 509.
1919 A, 656, 661.
Broom, R. 1922 A, 24, 25
1924 B, 48, 64, fig. 13.
Bryant, H. C. 1914 B, 155.
Huene, F. 1910 B, 45.
1912 B, 54 ("thalattosaurier").
Merriam, J. C. 1904 A, 420.
1904 C, 218.
1905 E, 248.
1905 F, 1-52.
1915 G, 97 ("thalattosaurs").
Nopcsa, F. 1922 A, 115, 116 ("thalattosaurier").
1923 H, 8, 9, 56, 57, 60, 123, tab.
Nopcsa, F. 1928 A, 172 (Thalattosauroidea).
Pompeckj, J. F. 1910 A, 132.
1925 A, 6, 10 ("thalattosaurier").
Steinman, G. 1907 A, 442.
1908 A, 235, 237 ("thalattosaurier").
1912 A, 52 ("thalattosaurier").
1912 B, 718, 721.
Versluys, J. 1912 B, 625.
Watson, D. M. S. 1917 C, 178, 185.
Williston, S. W. 1909 A, 395 ("thalattosaurs").
1914 A, 17, 45, 171.
1917 C, 414.
1925 A, 113, 135, 169.
1925 B, 213.
Zittel and Broili 1911 A, 206.
1923 A, 251, 383.

THALATTOSAURIDÆ Merriam.

Merriam, J. C. 1904 A, 420.
Huene, F. 1925 I, 248 ("thalattosaurier").
Merriam, J. C. 1905 E, 248.
1905 F, 5.
Nopcsa, F. 1923 H, 123.
1928 A, 172.
Tornier, G. 1913 B, 350.
Zittel and Broili 1911 A, 206.

THALATTOSAURUS J. C. Merriam. Type *T. alexandræ* Merriam.

Merriam, J. C. 1904 A, 419.
Abel, O. 1919 A, 663.
1928 A, 369.
Broom, R. 1922 A, 24.
1925 A, 9.
Camp, C. L. 1923 A, 348.
Dollo, L. 1913 B, 622.
Heilmann, G. 1926 A, 11, fig. 5.
Huene, F. 1910 B, 46.
1912 B, 56.
1925 I, 247.
Merriam, J. C. 1905 E, 247.
1905 F, 7, 33.
1908 A, 217, 218.
Merriam and Camp 1916 A, 171.
Nopcsa, F. 1923 H, 57, 76.
1928 A, 172.
Williston, S. W. 1914 A, 172, figs. 82-84.
1925 A, 74, 113, figs. 61, 87.
Zittel and Broili 1923 A, 251.

Thalattosaurus alexandræ J. C. Merriam.

Merriam, J. C. 1904 A, 419, fig. 1.
Abel, O. 1919 A, 662, fig. 519.
1920 A, 397, fig. 617.
1922 C, 306, fig. 258.
Broom, R. 1922 A, 23, fig. 4.
Huene, F. 1910 B, 45, figs. 12, 14, 16.
1912 B, 55, figs. 1, 2.
1925 I, 247, text-figs. 25-27.
Merriam, J. C. 1905 E, 247.
1905 F, 7, 34, pls. i, ii; pl. iv, fig. 1; pl. v, figs. 1, 2; pl. vi; pl. vii, figs. 1-3, 8, 9; pl. viii, figs. 1-2, 4-6.
1908 C, 62, fig. 88.
Pompeckj, J. F. 1910 A, 133.
Zittel and Broili 1923 A, 251.
Triassic (Hosselkus limestone); California.

Thalattosaurus perrini J. C. Merriam.

Merriam, J. C. 1905 F, 36, pl. iv, fig. 3; pl. v, fig. 3; pl. vii, fig. 6. (With *Scenodon* as alternative generic name).
Huene, F. 1922 D, 279 (Shastasaurus).
Merriam, J. C. 1908 A, 218.
Triassic (Hosselkus limestone); California.

Thalattosaurus shastensis J. C. Merriam.

Merriam, J. C. 1905 F, 35, pl. iii; pl. iv, figs. 2a-2c; pl. vii, figs. 4, 7; pl. viii, figs. 3, 7, 8.
Huene, F. 1910 B, 46, fig. 13.
1912 B, 56, fig. 3.
Merriam, J. C. 1908 A, 219.
Triassic (Hosselkus limestone); California.

NECTOSAURUS Merriam. Type *N. halius* Merriam.

Merriam, J. C. 1905 F, 37.
Abel, O. 1919 A, 663.
Merriam, J. C. 1908 A, 217.
Moodie, R. L. 1909 C, 123.
Nopcsa, F. 1923 H, 57.
1928 A, 172.
Versluys, J. 1910 B, 230.
Watson, D. M. S. 1917 C, 178.
Zittel and Broili 1923 A, 251.

Nectosaurus halius Merriam.

Merriam, J. C. 1905 F, 37, pl. iv, figs. 4, 5; (pl. v, figs. 4-6. This species?); pl. vii, fig. 5.
1908 A, 217, pls. xvii, xviii.
Triassic (Hosselkus limestone); California.

Order SAURIA Macartney.

Hay, O. P. 1902 A, 473.
Abel, O. 1909 F, 467 ("eidechsen").
1912 F, 272, 300, 414, 681.
1914 E, 341 ("eidechsen").
1919 A (Lacertilia).
1920 A, 397 ("eidechsen").
1921 A, 252 ("lacertilier").
Ahlborn, F. 1896 B, 7 ("eidechsen").
Allis, E. P. 1919 B, 84.
1923 A, 50.
Altmann, F. 1925 A, 94 ("saurier").
Ameghino, F. 1909 B, 108 ("lizards").
Anderson, R. J. 1912 D, 251.
Andreae, A. 1903 A, 150.
Anthony, R. 1912 A ("lacertiens").
1913 A, 248 ("saurier").
Arldt, T. 1907 C, 677 ("eidechsen").
1907 D, 661.
1912 A, 678.
Arthaber, G. 1910 A, 552 ("lacertilier").
Bardeleben, K. 1901 A ("saurier").
1903 A, 27 ("lacertilier").
1904 A, 109 ("saurier").
Batelli, A. 1880 A, 357 (Lacerta).
Baur, G. 1887 H, 48 ("lacertilier").
1890 F, 157 (Lacertilia).
1894 B, 350 (Lacertilia).
Beddard, F. E. 1904 B, 6.
Beecker, A. 1903 A, 565 ("saurier").
Beer, G. R. 1926 A, 312, fig. 82 (Lacertilia).
Bender, O. 1911 A, 173 ("lacertilier").
Beyer, H. 1907 B, 279, figs. 8, 9 ("saurier").
Bittner, F. 1912 A, 7 ("eidechsen").
Blainville, H. M. D. 1835 A, 243.
Blanchard, E. 1861 A, 375 ("sauriens").
Bluntschli, H. 1912 B, 383 ("saurier").
Boas, J. E. V. 1914 B, 559 ("saurier").
1914 C, 268 ("saurier").
Bogoljubsky, S. 1914 A, 620.
Bojanus, L. H. 1821 A, 1162 (Lacerta).
Bolk, L. 1913 A, 70 (Lacertilia).
1923 B, 374, fig. 4 (Lacerta).
Bonaparte, C. L. 1832 A, 313 (Lacertiformes, Saurii).
1833 B, 1184 (Saurii).
1840 A, 36 (Sauria).
Boulenger, G. A. 1885 B, 77 (Lacertilia).
1891 D, 114 (Lacertilia).
1893 B, 205.
1901 B, 402.
1917 C, 457 ("lacertiliens").
1918 E, 517 ("lacertiliens").
Brandt, J. F. 1865 A, 19 ("eidechsen").
Brauns, D. 1890 A, 147, 149, 160, 202 ("lacertiden," "lacertilien").
Braus, H. 1906 A ("lacertilier").
Broili, F. 1908 E, 296 ("lacertilier").
1926 C ("lacertilier").
Bronn, H. G. 1849 A, 812, seq. (Saurii).
Broom, R. 1896 A, 480.
1897 C, 279.
1901 A, 188.
1902 B, 168 ("lizard").
1902 D, 552 ("lizards").
1903 I, 546.
1903 J, 107.
1903 K, 1 ("lizards").
1906 F, 373 ("lizards").
1909 B, 162 ("lizard").
1911 A, 922 ("lizards").
1912 A, 627 ("lizards").
1913 C, 507 ("lizards").
1913 P, 227 ("lizards").
1922 A, 17, 18, 24, 25 (Lacertilia).
1924 B, 40 ("lizards"); 50, 64, fig. 13 (Lacertilia).
1925 A, 1-16 ("lizards").
1927 A, 74 ("lizards").
Camp, L. C. 1923 A, 289-481, figs. 1-112.
Camper, A. 1812 A, 218, pls. i-iii ("lézards").
Carlsson, A. 1896 A, 758 ("saurier").
Cartier, O. 1874 A, 192 ("eidechsen").
Carus, V. 1875 A, 432.
Carus and Engelmann 1861 A, 1093-1095, 1562, 1674, 1800.
Case, E. C. 1910 C, 192.
1923 A, 517 (Lacertilia).
Chapman, H. C. 1894 A, 49 ("lizard").
Clason, E. 1871 A, 300-376 ("eidechsen").
Cleland, J. 1863 B, 309 ("lizards").
Cligny, A. 1899 A, 126 ("sauriens").
Cope, E. D. 1885 FF, 796 ("lizards").
1891 N, 45 (Lacertilia).
1892 CC, 223 (Lacertilia).
Cutler, I. E. 1924 A, 144 (Lacertilia).
Cuvier, G. 1803 A, 168 ("sauriens").
1805 A ("sauriens").
1815 A, 106 ("lézards").
1825 A, v, 2, 251-299, pls. xvi, xvii ("lézards").
Dabelow, A. 1926 A, 95 ("saurier").
Dana, J. D. 1863 C, 343 ("lacertoids").
Dendy, A. 1907 A, 286.
Denker, A. 1901 A, 661 ("saurier").
Döderlein, L. 1900 A, 332 (Lacertilia).
Dollo, L. 1883 G, 579.
1884 E, 65 (Lacertilia).
1889 E, 162.
1893 D, 4 ("lacertiliens").
1903 B, 138 ("lacertiliens").
1904 B, 218.
1905 A, 126 ("lacertiliens").

Dollo, L. 1923 A, 80 ("lacertiliens").
1924 A, 211 ("lacertiliens").
Dombrowski, B. A. 1925 A, 72, fig. 5 (Lacertilia).
Duerden, J. E. 1924 A, 561 ("lizards").
Du Toit, P. J. 1911 A, 417 ("eidechsen").
Edgeworth, F. H. 1907 A, 516 (Lacertilia).
Eichwald, E. 1832 A, 869 ("eidechsen").
Eimer, G. H. T. 1901 A, 248 ("saurier").
Eisler, P. 1895 A, 13 ("saurier").
Fejérváry, G. J. 1918 A (Lacertilia).
Fischer, E. 1903 A, 386 ("eidechsen").
Fleischmann, A. 1910 A, 682, 695 ("saurier").
Fraas, E. 1905 B, 372.
Frassetto, F. 1915 A ("sauri").
Fuchs, H. 1906 A, 8 ("saurier").
1907 B, 413 ("saurier").
1907 C, 23 ("saurier").
1908 A, 359 ("lacertilier").
1908 B, 585 ("saurier").
1908 C, 174 ("saurier").
1909 B, 131, 149, 157 (Lacertilia).
1909 D, 26 ("lacertilier").
1910 A, 39 ("lacertilier").
1910 B, 252 ("lacertilier").
1911 A, 52 ("saurier").
1912 B, 82 ("saurier").
1912 D, 156 ("lacertilier").
1927 A, 309.
Fürbringer, M. 1888 A, 1620 (Lacertilia).
1902 A, 203 ("lacertilier").
1902 B, 727, 732 ("lacertilier").
1904 A ("lacertilier").
Gadow, H. 1901 A, 398.
1901 B, 490, 491 (Autosauri or Lacertilia).
1902 B, 359.
1905 A, 211.
1914 A, 508 ("lizards").
Gaupp, E. 1891 B, 107 ("saurier").
1895 A, 58, seq. ("saurier").
1899 A, 1034, 1067 ("lacertilier").
1900 A, 439 ("saurier").
1902 A, 169 ("saurier").
1905 A, 277 ("saurier").
1905 C, 127 ("saurier").
1905 D, 1008 ("saurier").
1905 E, 159 ("saurier").
1906 B, 757 ("saurier").
1908 A, 182 ("saurier").
1908 B ("saurier").
1910 A, 531 ("saurier").
1910 B, 358 ("lacertilier").
1910 C, 385 ("saurier").
1910 D, 86 ("saurier").
1911 A, 423 ("saurier").
1911 B, 104 (Sauria).
1911 C, 444, 446 ("saurian").
1911 D, 635 ("saurier").
1911 E, 404 ("saurier").
1912 B, 239 ("saurier").
1913 A, 47 ("saurier").
Gegenbaur, C. 1863 A, 466 ("saurier").
1864 C, 190 ("eidechsen").
1865 C, 562 ("lizards").
1866 A, 123 ("eidechsen").
1871 A, 201 ("eidechsen").
1880 A, 596 ("eidechsen").
Gelderen, C. 1922 A, 223.
Gelderen, C. 1923 A, 15.
1925 A, 495 ("saurier").
Geoffroy St.-Hilaire, E. F. 1825 B, 127 ("lézards").
1832 A, 353 ("lézards").
Gervais, P. 1852 A, 257 ("sauriens").
1853 B, 44 ("sauriens").
1859 A, 454 ("sauriens").
Giebel, C. G. 1855 A, 91 (Lacertici).
Gill, T. 1886 C, 801 ("lizards").
1907 A, 493 ("lizards").
Gilmore, C. W. 1927 G, 4, 14.
Göppert, E. 1905 A, 532 (Sauria).
Goodrich, E. S. 1916 A, 264, 273 (Lacertilia).
Goodsir, J. 1857 A (Sauria).
Gottlieb, H. 1914 A, 195 ("saurier").
Gray, J. E. 1825 A, 196 (Sauri).
1837 C, 132 ("saurians").
Greene, J. R. 1861 A, 219, 226.
Gregory, W. K. 1913 E, 3.
Gregory and Adams 1915 A, 763 ("lizards").
Gregory and Noble 1924 A, 437, fig. 5 (Lacertilia).
Haeckel, E. 1868 A, 453, 455 (Lacertilia).
1873 A, 512, 531.
Haller, G. 1924 A, 306, figs. 1, 3, 7 (Lacerta).
Hanson, F. B. 1920 B, 332, 337 (Lacertilia).
Harkness, R. 1852 A, 258 (Sauriæ).
Hayek, H. 1924 A, 147 ("eidechsen").
Heilmann, G. 1914 A, 60, 75 (Lacertilia).
1926 A, 205-206 (Lacertilia).
Heilprin, A. 1887 A, 45, 315, 320 ("lizards").
Henshaw, H. W. 1912 A, 318 ("lizards").
Hoernes, R. 1886 A, 604 (Sauria).
Hoffmann, O. 1905 A ("saurier").
Hollard, H. 1864 C, 368 ("sauriens").
Hommes, J. H. 1924 A, 36 (Lacertilia).
Howes, G. B. 1891 A, 156 (Lacertilia).
1893 C, 587 ("lizards").
Howes and Swinnerton 1901 A, 17, 30, 54.
Huene, F. 1908 F, 403 ("saurier").
1910 B, 5.
1910 D, 313 ("lacertilier").
1922 G, 451 ("eidechsen").
Huxley, T. H. 1859 D, 401, 449.
1859 F, 137.
1862 A, liii.
1863 F, 476, 529, figs. 43, 44, 46, 47.
1867 D, 83.
1867 F, 173.
1869 H, 389.
1870 F, 529, 538, 547.
1875 E, 73, 83.
1876 F, 173.
1877 A, 50.
1879 A, 398.
1887 B, 655.
Jaekel, O. 1905 B, 61.
1910 C, 336 (Lacerti).
1911 A, 154 (Lacerti).
Janensch, W. 1906 A, 27 ("lacertilier").
Johnson, A. 1883 A, 406 ("lizards").
Juhn, M. 1923 A, 65-110 (Lacerta).
Kerbert, C. 1876 A, 206 ("saurier").
Kesteven, H. 1916 A, 305 (Lacertilia).
1922 A, 316 (Lacertilia).
Kingsley, J. S. 1900 A, 214 ("lizards").
1901 A, 198 ("lizards").

Kingsley, J. S. 1912 B, 93 ("lizards").
1925 A, 44, 54, 152, 154 (Lacertilia).
Klaauw, C. J. 1924 B, 581 (Lacertilia).
Klein, E. E. 1868 A ("saurier").
Köstlin, O. 1844 A ("saurier").
Koken, E. 1887 B, 33 ("lacertilier").
1898 A, 141 ("lacertilier").
Kornhuber, A. 1901 A, 151.
Kühne, K. 1914 A, 407 ("eidechsen").
Laaser, P. 1903 A, 575 ("eidechsen").
Lakjer, T. 1927 A, 343-354.
Lavocat, A. 1885 A, 35 ("lacertiens").
1889 A, 44 ("lizards").
Lebedinsky, N. G. 1913 A, 767 ("lacertilier").
Leche, W. 1893 C, 797 ("saurier").
Le Damany, P. 1902 A, 334 ("sauriens").
1903 G, 314 ("sauriens").
Leunis and Ludwig 1883 A, 545.
Leydig, F. 1873 A, 761 ("eidechsen").
1890 A, 443 ("eidechsen").
Lobley, J. L. 1908 A, 198.
Lorenz, L. E. F. 1807 A, 19 (Sauria).
Lubosch, W. 1926 A, 103 ("lacertilier").
Lull, R. S. 1910 D, 152.
Lydekker, R. 1912 C, 3, 4, 41.
Mantell, G. A. 1844 A, 753 ("lacertians").
Matthew, W. D. 1915 A, 288.
1921 D, 214 (Lacertilia).
Meckel, J. F. 1825 A ("saurier").
Meek, A. 1908 A, 1, fig. 1 ("lizard").
Mehnert, E. 1891 A, 123 ("eidechsen").
Menmuir, W. H. 1902 A, 273 (Sauria).
Mitchell, P. C. 1894 A, 212 ("lizards").
Mivart, St. G. 1871 B, 381 ("saurians").
1879 B, 538 ("lizards").
1888 A, 374.
Mivart and Clarke 1879 A, 513 ("lizards").
Moodie, R. L. 1907 A, 84.
1908 D, 462.
1909 G, 362.
Müller, J. 1832 A, 507 (Saurii).
1841 B, cliv ("eidechsen").
1841 C, 329 ("eidechsen").
Nauck, E. T. 1923 A, 18, figs. 3, 4 ("lacertilier").
Newton, E. T. 1888 B, 439 ("lizards").
Nitzsch, C. L. 1822 A, 68 (Sauria).
Nopcsa, F. 1903 A, 119.
1908 A, 33 ("eidechsen").
1922 A, 115 ("lacertilier").
1923 E, 1047 (Lacertilia).
1923 G, 138 ("lepidosaurier").
1923 H, 1-174, tab. (Lacertilia).
1924 B, 86 ("lacertilier").
1926 A, 644 (Lacertilia).
1928 A, 163, 174 (Sauroidea).
Nowikoff, M. 1907 A, 364 ("saurier").
1910 A, 118 ("saurier").
1910 B, 167 ("saurier").
1912 A, 334 ("saurier").
Osborn, H. F. 1903 H, 456.
1904 H, 114.
1905 C, 295.
1905 N, 239 ("lizards").
1912 K, 53.
1917 B, 193, 201, 231.
1925 F, 962 (Lacertilia).
Otto, H. 1908 A, 193 ("saurier").
Owen, R. 1842 F, 73, 77 (Sauria).
Owen, R. 1845 B, 234 ("saurians").
1848 B.
1868 A, 887.
Palacký, J. 1894 A, 129 ("eidechsen").
1899 C, 247 ("eidechsen").
1902 B, 142, 145 ("eidechsen").
Paramore, R. H. 1910 A, 1462 ("lizards").
Parker, W. K. 1864 B, 56 (Lacertilia).
1869 A, 505 ("lizards").
1878 C, 214.
1881 B, 99.
1888 C, 397 ("lizards").
Parker and Haswell 1897 A, 312.
Parsons, F. G. 1903 A, 316 ("lizards").
Pearson, H. G. 1921 A, 20 (Lygosoma).
Peter, K. 1898 A, 570 ("saurier").
Peters, W. 1867 A, 725 ("saurier").
1868 B, 388 ("lizards").
1869 A, 6 ("eidechsen").
Pfeiffer, H. 1854 A, 12, 39 ("saurier").
Pictet, F. J. 1853 A, 500 ("lacertiformes").
Plieninger, F. 1906 A, 406 ("lacertilier").
Rabl, C. 1903 A, 158, 163 ("saurier").
Reichert, K. B. 1849 A, 498 ("eidechsen").
Reynolds, S. H. 1897 A, 545, fig. 54 (Lacertilia).
Rice, E. L. 1920 A.
Romer, A. S. 1922 A, 39 ("lizards").
1922 B, *passim* ("lizards").
Sabatier, A. P. 1897 A, 808 ("lizards").
1897 B, 933 ("lizards").
1902 A, 100 ("sauriens").
Schauinsland, H. 1899 A, 333 ("saurier").
1906 A ("saurier").
Schmalhausen, J. J. 1923 A, 541 (Lacertilia).
Schmidt, W. J. 1909 A, 359 ("saurier").
1910 A ("eidechsen").
1912 A, 84 ("saurier").
1912 B, 163 ("saurier").
Schöne, G. 1902 A, 27 ("saurier").
Schwartz, H. 1908 B, 100 ("lacertilier").
Scott, W. B. 1917 A, 178 ("lizards").
Seeley, H. G. 1865 B, 144 ("lizards").
1876 C, 168, 182, 190 ("lizards").
1882 A, 366 (Lacertilia).
1887 E, 191.
Seemann, G. 1926 A, 107 ("saurier").
Serres, M. 1852 B ("sauriens").
Sewertzoff, A. N. 1904 A, 473, 483 ("saurier").
1908 A (Lacertilia).
Seydel, O. 1899 A ("saurier").
Shiino, K. 1914 A, 374 ("lacertilier").
Shore, T. W. 1887 A, 366 (Lacertilia).
Siebenrock, F. 1892 B, 373 ("saurier").
Simpson, G. G. 1926 E, 8 ("lacertilians").
Sippel, W. 1907 A, 492, 514 ("saurier").
Sirena, S. 1872 A, 125 ("eidechse").
Sixta, V. 1900 A, 213 ("saurier").
1900 B, 329 ("eidechsen").
1901 A, 330 ("saurier").
Smith, G. E. 1912 A, 426.
Sokolowsky, A. 1904 A, 754 ("eidechsen").
Spencer, W. B. 1886 A, 165.
Stannius, H. 1856 A.
Stefano, G. 1904 A, 382 (Lacertilia).
Stehli, G. 1910 A, 763 ("saurier").
Steiner, H. 1922 A, 330 ("saurier").
Steinmann, G. 1907 A, 437 (Lacertilia).
1908 A, 213 ("eidechsen").

Steinmann, G. 1912 B, 731.
Stejneger, L. 1907 C, 162.
Stejneger and Barbour 1917 A, 42 (Sauria).
Stromer, E. 1912 A, 75.
Struck, W. 1915 A, 141, fig. 10 (Lacerta).
Sushkin, P. P. 1927 A, 268, 307 (Lacertilia).
Sutton, J. B. 1884 A, 570 (Lacertilia).
Swinnerton and Howes 1901 A, 55.
Symington, J. 1892 A, 577 (Lacertilia).
Taschenberg, O. 1894 A, 3615.
Terra, P. 1911 A, 231 (Saurii).
Thyng, F. W. 1906 A, 58 (Lacertilia).
Tomes, C. S. 1875 A, 93.
Tornier, G. 1909 A, 195 ("eidechsen").
1909 C, 547.
1913 A, 330 (Sauria).
1913 B, 344, 374 (Lacertosauria).
Versluys, J. 1898 A, 161 (Lacertilia).
1903 A, 107 ("lacertilier").
1910 B, 178 ("eidechsen").
1911 A, 138 ("eidechsen").
1912 A, 491 ("lacertilier").
1912 B, 626, 687.
Vialleton, L. 1917 A, 190 ("sauriens").
1919 A, 307 ("sauriens").
Virchow, H. 1914 A, 79 ("eidechsen").
1914 C, 132 ("eidechsen").
1921 A, 137 ("eidechsen").
Vitali, G. 1909 A, 210 ("sauri").
Voit, M. 1909 B, 142 ("saurier").
Wagner, R. 1843 A, 146 (Sauria).
Wallace, A. R. 1876 A, I, 99; II, 388, 403, 404 (Lacertilia).
Wamich, P. 1913 A, 23 ("lacertilien").
Watson, D. M. S. 1914 F, 783 ("lizards").
1914 G, 1006 ("lizards").
1914 J, 1037 ("lizards").
1917 A, 980 ("lizards").
1926 A, 202 ("lizards").
Wegner, R. N. 1922 A, 420 ("saurier").
Werner, F. 1904 A, 336 ("eidechsen").
Wiedersheim, R. 1880 E, 496 ("saurier").
Williston, S. W. 1902 L, 918 (Lacertilia).
1904 A, 43 (Lacertilia); 48 (Sauria).
1910 A, 271 ("lizards").
1912 B, 661 (Sauria).
1914 A, 17, 45, 139, 140 ("lizards").
1917 C, 418.
1925 A, *passim* (Sauria, Kionocrania, Lacertilia).
1925 B, 212, 265 (Lacertilia).
Zavattari, E. 1908 A, 1138 ("sauri").
Ziegler, H. E. 1901 A, 231 ("eidechsen").
Zittel and Broili 1911 A, 207.
1923 A, 254 (Lacertilia).
Zittel, Eastman, etc. 1902 A, 160.

Suborder IGUANIFORMES, new name.

Camp, C. L. 1923 A, 295, 297, 303, etc., figs. 1-7 (Ascalabota).
Gilmore, C. W. 1927 G, 14 (Ascalabota).
Merrem, B. 1820, Tent. Syst. Amphib., 9 (Ascalabotæ).

Superfamily IGUANOIDÆ, new name.

Camp, C. L. 1923 A, 296, 298, 307, etc., figs. 5, 6, 58-61 (Iguania).
Cope, E. D. 1900 A, 211 (Pachyglossa).
Gilmore, C. W. 1927 G, 14 (Iguania).

IGUANIDÆ Bonaparte.

Bonaparte, C. L. 1840 A, 30.
Hay, O. P. 1902 A, 474.
Adams, L. A. 1919 A, 93, pl. vii (Iguana).
Arldt, T. 1907 C, 677.
1907 D, 660.
1912 A, 689, 712.
Blainville, H. M. D. 1835 A, 250 ("iguanes").
Boulenger, G. A. 1885 B, 79.
1890 A, 412 ("iguanoid lizards").
1891 D, 113.
1901 B, 402.
Brauns, D. 1890 A, 151, fig. 1 (Iguana).
Broom, R. 1903 K, 3 ("iguanas").
Carus, V. 1875 A, 447.
Cuvier, G. 1805 A ("iguanes").
Dollo, L. 1884 E, 68.
1893 D, 3.
1923 A, 81.
Fuchs, H. 1927 A, 310, fig. 3 (Iguana).
Fürbringer, M. 1900 A, 235, figs. 1, 7.
Gadow, H. 1896 A, 29, fig. 17.
1901 B, 528.
Gaupp, E. 1899 A, 1069, figs. 9, 10 (Iguana).
Gill, T. 1886 C, 802.
Gilmore, C. W. 1927 G, 8, 16, fig. 6.
Günther, A. 1908 A, 523.
Hoffmann, C. K. 1890 B, 1217, pls. lvi, lxii.
Jaekel, O. 1902 C, 610 (Iguana).
Jaekel, O. 1903 A, 119 (Iguana).
Juhn, M. 1923 A, 71.
Kingsley, J. S. 1925 A, 250 (Iguana).
Köstlin, O. 1844 A (Iguana).
Lakjer, T. 1927 A, 64, 266, 267.
Leche, W. 1893 C, 793, figs. 1-7 (Iguana).
Leunis and Ludwig 1883 A, 564.
Lobley, J. L. 1908 A, 202, 208.
Lorenz, L. E. F. 1807 A, 31 (Lacerta iguana).
Lull, R. S. 1910 A, 6.
Lydekker, R. 1912 C, 41.
Matthew, W. D. 1914 B, 387.
Meckel, J. F. 1825 A (Iguana).
Mehnert, E. 1891 A, 124 (Iguana).
Mivart and Clarke 1879 A, 517, pl. lxvii, fig. 1 (Iguana).
Moodie, R. L. 1908 D, 456.
Nopcsa, F. 1908 A, 49, 51.
1923 G, 122 ("iguaniden").
1923 H, 73, 124 (Iguaninæ).
1928 A, 175.
Nowikoff, M. 1910 A, 181.
Owen, R. 1845 B, 240 ("iguanians").
1866 A, 402.
Palacký, J. 1899 C, 251, 280 ("iguaniden").
1902 B, 145 ("iguaniden").
Paramore, R. H. 1910 A, 1396, figs. 4-6 (Iguana).
Scharff, R. F. 1911 A, 126, 202, 207, 304.

Schmidt, W. J. 1909 A, 362, 378.
Siebenrock, F. 1892 B, 373 (Iguana).
Sokolowsky, A. 1904 A, 754 ("iguaniden").
Spencer, W. B. 1886 A, 195 (Iguana).
Stefano, G. 1904 A, 387.
Terra, P. 1911 A, 231.
Tornier, G. 1913 B, 344 ("iguaniden").
Versluys, J. 1898 A, 203.
  1903 A, 114.
Virchow, H. 1914 A, 79 (Iguana).
Wallace, A. R. 1876 A, ii, 400.
Williston, S. W. 1914 A, 140, fig. 65 (Iguana).
  1925 B, 267.
Zavattari, E. 1908 A, 1141 (Iguana).

IGUANAVUS Marsh. Type *I. exilis* Marsh.

Hay, O. P. 1902 A, 474.
Gilmore, C. W. 1924 D, 27.
  1927 G, 9, 15, 16.
Heilprin, A. 1887 A, 320.
Matthew, W. D. 1915 A, 289.
Palacký, J. 1899 C, 281.
Scharff, R. F. 1911 A, 127.
Williston, S. W. 1902 K, 953.
  1925 B, 267.

Iguanavus exilis Marsh.

Hay, O. P. 1902 A, 474.
Gilmore, C. W. 1927 G, 9, 15, 16, pl. ii, fig. 2.
Nopcsa, F. 1908 A, 41.
  Middle Eocene (Bridger); Wyoming.

Iguanavus teres Marsh.

Hay, O. P. 1902 A, 474.
Bowen, C. F. 1915 A, 128.
Gilmore, C. W. 1927 G, 3, 6, 8, 9, 15, 16, 17, pl. ii, fig. 1.
Nopcsa, F. 1908 A, 41.
Osborn, H. F. 1902 I, 12, 17.
  Upper Cretaceous (Lance); Wyoming.

Iguanavus sp. indet.

Gilmore, C. W. 1924 D, 27. Upper Cretaceous (Lance); Saskatchewan.
Sternberg, C. M. 1924 A, 68. Upper Cretaceous (Lance); Saskatchewan.

ACIPRION Cope. Type *A. formosum* Cope.

Hay, O. P. 1902 A, 477.
Broili, F. 1908 E, 297.
Gilmore, C. W. 1927 G, 7, 9, 15, 18.
Williston, S. W. 1925 B, 274.
Nopcsa, F. 1908 A, 36.
O'Harra, C. C. 1910 A, 121.
Seeley, H. G. 1886 A, 512.
  Oligocene (White River); Colorado.

Aciprion formosum Cope.

Hay, O. P. 1902 A, 477.
Gilmore, C. W. 1927 G, 6, 8, 9, 15, 34, pl. xx, figs. 10, 10*a*.

Aciprion majus Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 15, 20, pl. xx, fig. 11; text-fig. 7.
  Oligocene (White River); Colorado.

EXOSTINUS Cope. Type *E. serratus* Cope.

Hay, O. P. 1902 A, 476.
Gilmore, C. W. 1927 G, 7, 9, 15, 21, 90, 91.
Seeley, H. G. 1886 A, 512.

Exostinus? lancensis Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 15, 23, pl. xxvi, fig. 2; pl. xxvii, figs. 2, 2*a*; text-fig. 9.
  Upper Cretaceous (Lance); Wyoming.

Exostinus serratus Cope.

Hay, O. P. 1902 A, 476.
Gilmore, C. W. 1927 G, 6, 8, 9, 15, 22, pl. xxv, figs. 4-6; text-fig. 8.
Nopcsa, F. 1908 A, 39.
  Oligocene (White River); Colorado.

CHAMOPS Marsh. Type *C. segnis* Marsh.

Hay, O. P. 1902 A, 474.
Boulenger, G. A. 1918 C, 594.
Camp, C. L. 1923 A, 309, 418.
Gilmore, C. W. 1927 G, 7, 9, 15, 24.
Scharff, R. F. 1911 A, 127.
Williston, S. W. 1902 K, 953.
  1925 B, 268.
Zittel and Schlosser 1911 A, 210.
  1923 A, 257 (Chasmops).

Chamops denticulatus Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 15, 26, pl. xxvii, fig. 5; text-fig. 14.
  Upper Cretaceous (Lance); Wyoming.

Chamops segnis Marsh.

Hay, O. P. 1902 A, 474.
Bowen, C. F. 1915 A, 128.
Camp, C. L. 1923 A, 309, figs. D, E.
Gilmore, C. W. 1927 G, 3, 6, 8, 9, 15, 24, text-figs. 10-12.
Nopcsa, F. 1908 A, 38 (C. seguis).
Osborn, H. F. 1902 I, 12.
  Upper Cretaceous (Lance); Wyoming.

PARASAUROMALUS Gilmore. Type *P. olsenii* Gilmore.

Gilmore, C. W. 1927 G, 8, 15, 27.

Parasauromalus olsenii Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 15, 27, text-fig. 15.
  Middle Eocene (Wind River); Wyoming.

PHRYNOSOMA Wiegmann. Type *P. orbicularis* Wiegmann.

Wiegmann, A. F. A. 1828, Isis, xxi, 367.
Boulenger, G. A. 1885 A, ii, 239.
Cope, E. D. 1900 A, 403.
Gilmore, C. W. 1927 G, 6, 15, 28.
Seemann, G. 1926 A, 122.
Stejneger and Barbour 1923 A, 60.

Phrynosoma sp. indet.

Brown, B. 1908 A, 166, 207 ("lacertian sp.").
Gilmore, C. W. 1927 G, 8, 15, 28, pl. xxvii, fig. 4. Pleistocene (Middle); Arkansas.

CROTAPHYTUS Holbrook. Type *Agama collaris* Say = *Crotaphytus collaris* Holbrook.

Holbrook, J. E. 1842, N. A. Herpet., ii, 79.
Baird and Girard 1852, Stansbury's Explor. Salt Lake, 339.
Boulenger, G. A. 1885 A, ii, 203.
Cope, E. D. 1900 A, 245.
Gilmore, C. W. 1927 G, 5, 15, 20, 29, text-fig. 7.

Crotaphytus sp. indet.

Gilmore, C. W. 1927 G, 5, 15, 29. Pliocene or Pleistocene; Arizona.

Superfamily CHAMÆLEONOIDÆ, new name.

Hay, O. P. 1902 A, 478 (Rhiptoglossi).
Boulenger, G. A. 1891 D, 117 (Rhiptoglossa).
Camp, C. L. 1923 A, 296, 298, 310, 351, 417, fig. 7 (Rhiptoglossa).
Dollo, L. 1904 B, 218 (Rhiptoglossa).
Gelderen, C. 1925 A, 495 (Rhiptoglossa).
Gilmore, C. W. 1927 G, 29 (Rhiptoglossa).
Latreille, P. A. 1825 A, 97 (Chamæleonii).
Lydekker, R. 1912 C, 4 (Rhiptoglossa).
Merrem, B. 1820, Tentamen Syst. Amphib., 166 (Prendentia).
Nauck, E. T. 1923 A, 22 ("chameleonten").
Rafinesque, C. S. 1815 A, 75 (Camælonia).
Sewertzoff, A. N. 1908 A (Chamæleontia).
Stannius, H. 1856 A (Chamæleonida).
Werner, F. 1902 A, 326 (Rhiptoglossi).
Williston, S. W. 1904 A, 48 (Rhiptoglossi).
1925 A, 19, 21, 22, 70, 95, 106, 132, 187, 198 (Rhiptoglossa).
1925 B, 212, 274 (Rhiptoglossa).

CHAMÆLONIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 65.
Hay, O. P. 1902 A, 478.
Abel, O. 1912 F, 394 (Chamæleon).
1919 A, 659, fig. 518 (Chameleo).
Arldt, T. 1907 D, 645 (Chamæleontidæ).
Bauer, F. 1901 A, 54 ("chamæleone").
Baur, G. 1894 B, 350 (Chamæleon).
Beddard, F. E. 1907 A, 35 ("chamæleons").
Beyer, H. 1907 B, 282, fig. 10 (Chamæleon).
Blainville, H. M. D. 1835 A, 246 ("caméléons").
Blanchard, E. 1861 A, 380 ("caméléons").
Boas, J. E. V. 1914 C, 268, fig. 49 (Chamæleon).
Bolk, L. 1914 A (Chamæleon).
Bonaparte, C. L. 1832 A, 315.
1833 B, 1184.
Boulenger, G. A. 1885 B, 79 (Chamæleontidæ).
1891 D, 113 (Chamæleontidæ); 118, fig. 6 (Chamæleon).
1917 C, 456 ("caméléoniens").
Branca, W. 1908 B, 35 (Chamæleon).
Broom, R. 1903 J, 110 (Chamæleontidæ).
1906 F, 374 (Chameleo).
1908 E, 115 ("chamæleons").
1909 D, 212 (Chameleo).
1911 A, 922 (Chamæleon).
1924 B, 42, fig. 1 (Chamæleon).
1925 A, 16.
Camp, C. L. 1923 A, 298, 311, 333 (Chamælontidæ).
Carlsson, A. 1896 A, 758 ("chamæloniden").
Cartier, O. 1874 A, 201 ("chamaleon").
Carus, V. 1875 A, 451 (Chamæleontidæ).
Cuvier, G. 1825 A, v, 2, 268 ("caméléon").
Dollo, L. 1884 E, 68.
1884 F, 347 ("caméléons").
Dollo, L. 1893 D, 3 (Chamæleontidæ).
1923 A, 80 ("caméléoniens").
Eaton, G. F. 1910 A, 11.
Edgeworth, F. H. 1907 A, 516, figs. 32-35 (Chamæleon).
Eichwald, E. 1832 A, 866 (Chamæleon).
Fitzinger, L. 1843 A, 41 (Chamæleontes).
Foote, J. S. 1916 A, 49, pl. iii (Chameleo).
Gadow, H. 1896 A, 23.
1901 A, 410 ("chamæleons").
1901 B, 567 (Chamæleontes); 573 (Chamæleontidæ).
Gaupp, E. 1895 A, 62 ("chamæleonen").
1899 A, 1069 (Chameleo).
1910 A, 1069 ("chamaeleoniden").
1910 C (Chameleo).
Gegenbaur, C. 1871 A, 199 (Chameleo).
Gelderen, C. 1923 A, 29 (Chamæleo).
Gervais, P. 1853 B, 45 ("chaméléons").
Giebel, C. G. 1855 A, 94 (Chamæleon).
Gill, T. 1886 C, 802 (Chamæleontidæ).
Gilmore, C. W. 1927 G, 29.
Hanson, F. B. 1919 B, 74 (Chameleo).
Hasse and Schwarck 1870 A, 54 ("chamæleonten").
Heilmann, G. 1926 A, 204 ("chameleon").
Heilprin, A. 1887 A, 316, 318 (Chameleon).
Hommes, J. H. 1924 A, 36 (Chamæleon).
Huene, F. 1925 D, 235 (Chamæleon).
Humphrey, G. M. 1870 B, 75, figs. 6, 7 ("chameleon").
Kerbert, C. 1876 A, 213 (Chamæleon).
Kingsley, J. S. 1925 A, 156, 265, figs. 165, 285 (Chameleo).
Klein, E. E. 1868 A (Chamæleon).

Köstlin, O. 1844 A (Chameleo).
Lakjer, T. 1927 A, 115, 266, figs. 23-25, 94, 130.
Le Damany, P. 1903 G, 320, fig. 13 ("caméléon").
Lobley, J. L. 1908 A, 202.
Lönnberg, E. 1910 A, 17 ("kameleont").
Lubosch, W. 1926 A, 104, 107, figs. 7, 8, 16 (Chamäleon).
Lwoff, W. 1884 A, 313.
Lydekker, R. 1912 C, 4, 40, 151 ("chamæleons").
Mivart, St. G. 1879 B, 538 ("chameleon").
Mivart and Clarke 1879 A, 514, pl. lxvi, fig. 1.
Moodie, R. L. 1907 A, 86 (Chameleon).
  1908 D, 465 ("chameleons").
Nitzsch, C. L. 1822 A, 83.
Nopcsa, F. 1908 A, 49 (Cameleontidæ).
  1923 G, 111 ("chamelodontidæ").
  1923 H, 61, 73, 75, 76, 124, 149, 184 (Chameleontidæ, Chameleoninæ).
  1928 A, 177 (Rhiptoglossidæ).
Nowikoff, M. 1910 A, 180 (Chamæleo).
Owen, R. 1845 B, 238 ("chameleons").
  1866 A, 193, fig. 123 (Chameleo).
  1868 A, 872 (Chameleo).
Palacký, J. 1899 C, 256 ("chamæleone").
Parker, W. K. 1878 C, 214 ("chamæleon").
  1881 B, 77 ("chameleons").
Pfeiffer, H. 1854 A, 39 ("chamæleonten").
Plieninger, F. 1906 A, 406 (Chamæleon).
Reynolds, S. H. 1897 A, 199, 272, 278, 291, 293 (Chamæleon).
Röse, C. 1893 D, 566, figs. 1-8 (Chamæleon).
Schauinsland, H. 1903 A, 32, pl. xxv (Chamæleo).
Schmidt, W. J. 1909 A, 363, 414 (Chamæleontidæ).
  1910 A, 639 (Chameleo).
  1912 B, 185, 189 (Chamæleon).
Seeley, H. G. 1876 C, 164 ("chameleon").
Seemann, G. 1926 A, 128, text-figs. 14, 15.
Spencer, W. B. 1886 A, 190 (Chameleo).
Stannius, H. 1856 A, 7, 89 (Chameleo).
Stefano, G. 1904 A, 387 (Chamæleontidæ).
Strecker, C. 1887 A, 305 ("chamæleon").
Taschenberg, O. 1894 A, 3620 (Chamæleon).
Thäter, K. 1910 A, 504 (Chamæleontidæ).
Tornier, G. 1913 A, 334 ("chamæleontidæ).
  1913 B, 344 ("chamæloniden").
Versluys, J. 1898 A, 162, 252 (Chamæleontidæ).
  1903 A, 151 (Chamäleon).
Wagner, R. 1843 A ("chamäleon").
Wallace, A. R. 1876 A, II, 402.
Werner, F. 1902 A, 295 ("chamäleonten").
Wiedersheim, R. 1892 A, 53 ("chamæleonten").
Williston, S. W. 1925 A, 68, 177, figs. 55, 143 ("chameleon").
  1925 B, 274 (Chameleontidæ).

TINOSAURUS Marsh. Type *T. stenodon* Marsh.

Hay, O. P. 1902 A, 476.
Fejérváry, G. J. 1918 A, 362 (Syn. of Thinosaurus).
Gilmore, C. W. 1922 D, 25.
  1927 G, 1, 9, 10, 30 (Tinosaurus); 7, 9, 10, 31 (Chamæleo).
Nopsca, F. 1908 A, 47 (Thinosaurus).

Tinosaurus pristinus (Leidy).

Hay, O. P. 1902 A, 478 (Chameleo).
Abel, O. 1919 A, 679 (Chameleo).
Camp, L. C. 1923 A, 310 (Chameleo).
Gilmore, C. W. 1927 G, 5, 8, 9, 32, pl. ii, figs. 16, 16a (Tinosaurus); 6, 9 (Chamæleo).
Matthew, W. D. 1915 A, 289 (Chamæleon).
Nopcsa, F. 1908 A, 38 (Chameleo).
Palacký, J. 1899 C, 281 (Chameleo).
Stefano, G. 1904 A, 392 (Chameleo).
  Middle Eocene (Bridger); Wyoming.

Tinosaurus stenodon Marsh.

Hay, O. P. 1902 A, 476 (T. stenodon, T. lepidus).
Gilmore, C. W. 1927 G, 6, 8, 10, 31, pl. ii, figs. 14, 15 (T. stenodon); 6. 10. 31 (T. lepidus).
Nopcsa, F. 1908 A, 47 (Thinosaurus stenodon, T. lepidus).
  Middle Eocene (Bridger); Wyoming.

PLACOSAURUS Gervais. Type *P. rugosus* Gervais.

Hay, O. P. 1902 A, 474.
Ameghino, F. 1906 A, 458.
  1909 B, 94, 96, fig. 349.
Boulenger, G. A. 1918 D, 890.
Camp, C. L. 1923 A, 327, 329, figs. 97, 104, 105.
Gervais, P. 1859 A, 457.
Gilmore, C. W. 1927 G, 88, 92.
Leenhardt, L. E. E. 1909 A, 103.
Nopcsa, F. 1928 A, 177.
Stefano, G. 1904 A, 403.
Williston, S. W. 1925 B, 268.
  A genus of uncertain systematic position.

Placosaurus? sp. indet.

Hay, O. P. 1902 A, 474. Eocene; New Mexico.
Gilmore, C. W. 1927 G, 6. Eocene; New Mexico.
Nopcsa, F. 1908 A, 44.

Suborder ANGUIFORMES Bonaparte.

Bonaparte, C. L. 1831 A, 71.
Camp, C. L. 1923 A, 296, 298, 312, etc. (Autarchoglossa).
Gilmore, C. W. 1927 G, 33 (Autarchoglossa).
Wagler, G. 1830, Nat. Syst. Amphib., 152 (Autarchoglossa).

Superfamily SCINCOIDÆ, new name.

Camp, C. L. 1923 A, 296. 298 (Scincomorpha).
Cope, E. D. 1900 A, 231, 539 (Leptoglossa).
Gilmore, C. W. 1927 G, 33 (Scincomorpha).

LACERTIDÆ Bonaparte.

Bonaparte, C. L. 1831 A.
Blainville, H. M. D. 1835 A, 254 (“lacertiens”).
Boulenger, G. A. 1887 A, 1.
1918 C, 594 (“lacertides”).
Camp, C. L. 1923 A, 296, 298, 299, 312, etc. (Lacertidæ, Lacertoidea).
Gadow, H. 1901 B, 549.
Gill, T. 1886 C, 800 (Lacertoidea); 802 (Lacertidæ).
Kühne, K. 1914 A, 407 (Lacerta).
Lydekker, R. 1888 B, 287.
Owen, R. 1845 B, 254 (“lacertians”).
Rice, E. L. 1920 A (Lacerta).
Versluys, J. 1898 A, 230.

LACERTA Linnæus. Type *L. agilis* Linnæus.

Linnæus, C. 1758 A, 200.
Allis, E. P. 1919 B, 84.
1919 D, 209.
1919 E, 364.
Blainville, H. M. D. 1835 A, 257.
Boulenger, G. A. 1887 A, 8.
1918 C, 595.
Gadow, H. 1901 B, 551, 553, fig. 142.
Gaupp, E. 1900 A, 433-594, pls. xlii-xlvii.
Kühne, K. 1914 A, 407, figs. 1-29.
Lydekker, R. 1888 B, 287.
Mivart and Clarke 1879 A, 515, pl. lxvi, fig. 2.
Owen, R. 1845 B, 257.
1866 A, 58, 157, 174, 401.
Rice, E. L. 1920 A.
Stefano, G. 1904 A, 412.
Versluys, J. 1898 A, 161.
Weiss, A. 1901 A, 496.
Zittel, K. A. 1890 A, 609.

Lacerta? sp. indet.

Lawson and Palache 1902 A, 391 (This genus?). Pliocene (Siesta); California.
Merriam, J. C. 1914 D, 14. Pleistocene (Siesta); California.

SCINCIDÆ Gray.

Gray, J. E. 1825 A, 201.
Boulenger, G. A. 1884 A, 120.
1887 A, 130.
Cope, E. D. 1900 A, 615, with synonymy.
Fürbringer, M. 1900 A, 232, 242.
Hoffmann, C. K. 1890 B, 1129-1170.
Lydekker, R. 1888 B, 288.
Nopcsa, F. 1928 A, 175.
Owen, R. 1866 A, 175, 198, 388.
Stannius, H. 1856 A, 6, 22 (Scincoidea).
Taschenberg, O. 1894 A, 3629.

EUMECES Wiegmann. Type *E. pavimentatus* G. St. Hilaire.

Wiegmann, F. A. 1834 A, 36.
Boulenger, G. A. 1887 A, 365, with synonymy.
Cope, E. D. 1900 A, 624, 1255, with synonymy.
Hoffmann, C. K. 1890 B, 1132, 1148.
Stejneger and Barbour 1923 A, 74.

Eumeces anthracinus (Baird).

Baird, S. F. 1849, Jour. Acad. Nat. Sci. Phila. (3), I, 294 (Plestiodon).
Boulenger, G. A. 1887 A, 376.
Cope, E. D. 1900 A, 630, 661, fig. 135.
Peterson, O. A. 1926 A, 252, text-fig. 2.
Stejneger and Barbour 1917 A, 74.
Recent; New York to North Carolina, west to Texas: Pleistocene (Middle); Pennsylvania.

AMPHISBÆNIDÆ Gray.

Gray, J. E. 1825 A, 203.
Hay, O. P. 1902 A, 476.
Arldt, T. 1907 C, 677.
1907 D, 637.
1912 A, 758.
Beyer, H. 1907 A, 286 (“amphisbænen”).
Blainville, H. M. D. 1835 A, 262 (“amphisbènes”).
Boas, J. E. V. 1914 C, 269 (“amphisbänen”).
Bonaparte, C. L. 1831 A, 66.
1832 A, 316 (Amphisbænina).
1833 B, 1185 (Amphisbænidæ, Saurophidii).
Boulenger, G. A. 1885 B, 79.
1901 B, 403.
1902 F, 382.
Camp, C. L. 1923 A, 299, 300, 316, 333 (Amphisbænidæ, Amphisbænoidea).
Carus, V. 1875 A, 436 (Amphisbænoidea).
Cope, E. D. 1892 CC, 241.
Cuvier, G. 1805 A (“amphisbènes”).
Dollo, L. 1923 A, 81.
Gadow, H. 1901 B, 565.
Gadow, H. 1905 A, 219.
Gaupp, E. 1899 A, 1070 (Amphisbæna).
1911 C, 446.
Gill, T. 1886 C, 802.
Gilmore, C. W. 1927 G, 6, 8, 33, 34, fig. 16.
Gray, J. E. 1837 C, 131 (“amphisbænians”).
1872 B, 31, 34.
Heilprin, A. 1887 A, 319 (Amphisbænia).
Hoernes, R. 1886 A, 607 (Amphisbænoidea).
Hoffmann, C. K. 1890 B, 1288, pl. lx (Amphisbæna).
Huene, F. 1913 C, 394 (Amphisbæna).
Kerbert, C. 1876 A, 206 (“amphisbæniden”).
Kingsley, J. S. 1902 B, 328 (Amphisbænia).
Köstlin, O. 1844 A (“amphisbänen”).
Lakjer, T. 1927 A, 158, 266, fig. 55-60, 97, 129.
Leunis and Ludwig 1883 A, 570 (Amphisbænidæ).
Lobley, J. L. 1908 A, 202, 208.
Lydekker, R. 1912 C, 41, 114.
Mayer, C. 1824 C, 834 (Amphisbæna).
Meckel, J. F. 1825 A (Amphisbæna).
Müller, J. 1832 A, 508 (Amphisbæna).

Nopcsa, F. 1923 H, 73, 75, 76 (Amphisbænia).
1928 A, 176.
Owen, R. 1845 B, 234 ("amphisbænians").
1866 A, 59.
Palacký, J. 1899 C, 254, 281.
1902 B, 145 ("amphisbäniden").
Peter, K. 1898 A, 607 ("amphisbæniden").
Scharff, R. F. 1911 A, 375.
Schmidt, W. J. 1910 A, 637 ("amphisbäniden").
Seeley, H. G. 1882 A, 353 (Amphisbæna).
Sirena, S. 1872 A, 132 (Amphisbæna).
Smalian, C. 1885 A, 126-202 ("amphisbæniden").
Terra, P. 1911 A, 234.
Thäter, K. 1910 A, 504.
Tornier, G. 1913 A, 334.
Versluys, J. 1898 A, 242.
1903 A, 157 ("amphisbæniden").
1912 B, 632, 684, 687 (Amphisbænida).
Wagner, R. 1843 A ("amphisbänen").
Wallace, A. R. 1876 A, II, 388.
Weitzel, A. 1865 A, 318 (Amphisbæna).
Williston, S. W. 1904 A, 48 (Amphisbænia).
1918 A, 82 (Amphisbænia).
1925 A, 69, fig. 56.
1925 B, 274.

OTOTRITON Loomis. Type *O. solidus* Loomis.

Loomis, F. B. 1919 A, 217.
Gilmore, C. W. 1927 G, 9, 35, 43.

Ototriton anceps (Marsh).

Hay, O. P. 1902 A, 475 (Glyptosaurus).
Douglass, E. 1908 C, 283 (Glyptosaurus).
Gilmore, C. W. 1917 A, 160 (Glyptosaurus).
1927 G, 3, 6, 9 (Glyptosaurus); 8, 34, 46, pl. xviii, figs. 14, 15; text-fig. 23 (Ototriton).
Nopcsa, F. 1908 A, 39 (Glyptosaurus).
Middle Eocene (Bridger); Wyoming.

Ototriton solidus Loomis.

Loomis, F. B. 1919 A, 217, fig. 1.
Gilmore, C. W. 1927 G, 4, 5, 7, 8, 9, 34, 43, text-figs. 20, 21.
Lower Eocene (Wasatch); Wyoming.

LEPOSTERNIDÆ Stejneger and Barbour.

Stejneger and Barbour 1917 A, 72.
Gray, J. E. 1844, Cat. Tortoises, etc. Brit. Mus., 68, 73 (Lepidosternidæ).

RHINEÜRA Cope. Type *R. floridana* Cope.

Hay, O. P. 1902 A, 476 (Rhineüra); 477 (Platyrhachis).
Broili, F. 1908 E, 297 (Rhineüra, Platyrhachis).
Brown, A. E. 1904 A, 469.
Cope, E. D. 1892 CC, 241, pl. xiii, fig. 14.
Eigenmann, C. H. 1902 A, 533, fig. 22.
1909 A, 48.
Fürbringer, M. 1900 A, 264.
Gilmore, C. W. 1927 G, 5, 7, 10, 35, 38, text-fig. 19 (Rhineura); 7, 10 (Platyrhachis).
Lydekker, R. 1912 C, 114.
Scharff, R. F. 1911 A, 173, 203.
Stejneger and Barbour 1917 A, 72.
Williston, S. W. 1925 B, 274 (Rhineura, Platyrhachis).

Rhineüra coloradoensis (Cope).

Hay, O. P. 1902 A, 477 (Platyrhachis).
Gilmore, C. W. 1927 G, 8, 10, 34, 42, pl. xxv, figs. 10-12 (Rhineura); 6, 10, 34 (Platyrhachis).
Nopcsa, F. 1908 A, 44 (Platyrhachis coloradensis).
Oligocene (White River); Colorado.

Rhineüra hatcherii Baur.

Hay, O. P. 1902 A, 476.
Cope, E. D. 1900 A, 684.
Douglass, E. 1908 C, 283, figs. 3-5 (R. hatcheri).
Eigenmann, C. H. 1902 A, 534.
1909 A, 48.
Gilmore, C. W. 1927 G, 6, 8, 10, 34, 35, pl. i, figs. 2-4; text-figs. 17, 18.
Nopcsa, F. 1908 A, 46 (R. hatcheri).
O'Harra, C. C. 1910 A, 121, fig. 20.
1920 A, 160.
Oligocene (White River); South Dakota.

HYPORHINA Baur. Type *H. antiqua* Baur.

Hay, O. P. 1902 A, 477 (Hypsorhina, *errore*).
Broili, F. 1908 E, 297.
Cope, E. D. 1900 A, 684 (Hypsorhina).
Gilmore, C. W. 1927 G, 7, 9, 35, 47.
Nopcsa, F. 1908 A, 40.
Williston, S. W. 1925 B, 274.

Hyporhina antiqua Baur.

Hay, O. P. 1902 A, 477 (Hypsorhina, *errore*).
Cope, E. D. 1900 A, 684 (Hypsorhina).
Eigenmann, C. H. 1902 A, 534 (Hypsorhina antigua).
1909 A, 48 (Hypsorhina antigua).
Gilmore, C. W. 1927 G, 4, 6, 8, 9, 34, 38, 47, pl. i, fig. 1; text-figs. 24-26.
Nopcsa, F. 1908 A, 40.
O'Harra, C. C. 1910 A, 121 (H. antigua).
1920 A, 160 (H. antigua).
Oligocene (White River); South Dakota.

Superfamily ANGUIOIDÆ, new form.

Camp, C. L. 1923 A, 297, 299, 313, 326, 333 (Anguioidea).
Fürbringer, M. 1900 A, 621 (Anguimorpha).
Gilmore, C. W. 1927 G, 88 (Anguoidea).

VARANIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 65.
Hay, O. P. 1902 A, 476.
Adams, L. A. 1919 A, 97, pl. vii (Varanus).
Aichel, O. 1917 A, 109, fig. 7 (Varanus).
Arldt, T. 1907 D, 688.
1912 A, 712.
Blanchard, E. 1861 A, 380 ("varans").
Bolk, L. 1913 A, 79, figs. 60-62 (Varanus).
Bonaparte, C. L. 1833 B, 1184.
Boulenger, G. A. 1885 B, 79.
1891 D, 113, 116.
1893 B, 205.
1918 D, 890 ("varanides").
Broili, F. 1926 B, 173, fig. 2.
1926 C, 20, 36, figs. 6, 11 ("varaniden").
Broom, R. 1924 B, 41, 50 (Varanus).
1924 C, 71 (Varanus).
Burden, D. 1927 A, 18, figs. (Varanus).
Camp, C. L. 1923 A, 297 (Varanidæ); 297, 300, 320 (Varanoidea).
Carus, V. 1875 A, 437.
Cuvier, G. 1808 D, 82 ("monitors").
Dollo, L. 1884 E, 68 (Monitoridæ).
1893 D, 2.
1903 B, 137.
1904 B, 218.
Fejérváry, G. J. 1918 A.
1920 A, 351.
1921 B, 184.
Foote, J. S. 1916 A, 51 (Varanus).
Frassetto, F. 1915 A, 105, fig. 63 (Varanus).
Fürbringer, M. 1900 A, 236, 241, 250, figs. 5, 13, 26, 40.
Gadow, H. 1896 A, 29.
1901 B, 542.
Gaupp, E. 1899 A, 1069 (Varanus).
1905 D, 1011.
Geoffroy St. Hilaire, E. F. 1825 B, 127 ("monitors").
1832 A, 353 ("monitors").
Gervais, P. 1853 B, 45 ("varans").
Gill, T. 1886 C, 802 (Varanidæ); 800 (Varanoidea).
Gilmore, C. W. 1922 D, 23.
1927 G, 5, 51.
Haller, G. 1926 A, 457, fig. 4 (Varanus).
Heilprin, A. 1887 A, 319.
Hoffmann, C. K. 1890 B, 1068, pls. (Monitoridæ).
Huene, F. 1906 C, 336 (Varanus).
1914 G, pl. vii.
Huxley, T. H. 1859 F, 137 ("monitors").
Iwanzoff, N. 1894 A, 583 (Monitor).
Juhn, M. 1923 A, 71.
Kingsley, J. S. 1925 A, 142, 154, 155, figs. 163, 164 (Varanus).
Köstlin, O. 1844 A (Monitor).
Koken, E. 1901 B, 22 ("varaniden").
Kornhuber, A. 1901 A, 151 ("varaniden").
Lakjer, T. 1927 A, 121, 268, figs. 27-29, 126, 127, 135, 136.
Le Damany, P. 1903 G, 330, fig. 18 ("varan").
Leunis and Ludwig 1883 A, 549.
Lobley, J. L. 1908 A, 208.
Lydekker, R. 1912 C, 41, 141.
Matthew, W. D. 1915 A, 289.
Mehnert, E. 1891 A, 124 (Monitor).
Mivart and Clarke 1879 A, 520, pl. lxvii, fig. 2.
Nopcsa, F. 1903 C, 37, 39.
1908 A, 49, 51.
1923 E, 1054, fig. 9 (Varanus).
1923 G, 109, 111, 122 ("varaniden").
1923 H, 124, 149, 173 (Varaninæ).
1926 A, 649.
1928 A, 177 (Varaninæ).
Nowikoff, M. 1910 A, 179 (Varanus).
Owen, R. 1845 B, 263, pls. lxiii*a*, lxvii, lxviii ("varanians").
1848 B, 60.
Palacký, J. 1899 C, 253 ("varaniden").
Reynolds, S. H. 1897 A, 201, figs. 33, 34.
Schmidt, W. J. 1909 A, 362.
Seeley, H. G. 1876 C, 169 ("monitors").
Sippel, W. 1907 A, 518 (Varanus).
Spencer, W. B. 1886 A, 181 (Varanus).
Stefano, G. 1904 A, 407.
Taschenberg, O. 1894 A, 3631 (Varanus).
Terra, P. 1911 A, 233.
Thäter, K. 1910 A, 504.
Tornier, G. 1913 A, 320 ("varaniden").
1913 B, 344.
Versluys, J. 1898 A, 224.
1903 A, 151.
Virchow, H. 1914 A, 69 (Varanus).
1914 C, 139 (Varanus).
1921 A, 137, figs. 4, 5 (Varanus).
Wallace, A. R. 1876 A, II, 389.
Watkinson, G. B. 1906 A, 451, pls. xi-xiii (Varanus).
Wegner, R. N. 1922 A, 463, pl. xv; text-figs. 34, 35 (Varanus).
Wieland, G. R. 1925 A, 603.
1925 B, 557, 559 ("varanids").
Williston, S. W. 1903 A, 32, pl. v (Varanus).
1904 A, 44, 48 (Varanidæ); 45 (Varanoidea).
1925 A, 70, 71, 100.
1925 B, 269.
Zavattari, E. 1908 A, 1140.

SANIWINÆ Camp.

Camp, C. L. 1923 A, 297, 300, 320.

SANIWA Leidy. Type *S. ensidens* Leidy.

Hay, O. P. 1902 A, 475 (Saniwa); 476 (Thinosaurus).
Ameghino, F. 1893 E, 731 (Saniva).
Camp, C. L. 1923 A, 345 (Thinosaurus); 419, fig. 24 (Saniwa, Thinosaurus).
Dollo, L. 1923 A, 77.
Fejérváry, G. J. 1918 A, 364, 422, 433 (Saniva).
Gilmore, C. W. 1922 D, 23 (Thinosaurus a syn.).
1927 G, 6, 8, 10, 56, 57, 73 (Saniwa); 7 (Saniva); 7, 10 (Thinosaurus).
Heilprin, A. 1887 A, 320 (Saniva).
Matthew, W. D. 1915 A, 289.

Nopcsa, F. 1923 H, 76 (Saniva).

1928 A, 177 (Saniva, Thinosaurus).

Williston, S. W. 1925 B, 268 (Thinosaurus); 269 (Saniva).

Saniwa agilis (Marsh).

Hay, O. P. 1902 A, 476 (Thinosaurus).

Gilmore, C. W. 1922 D, 25.

1927 G, 8, 10, 54, 81, pl. ix, figs. 1-6 (Saniwa); 6, 10 (Thinosaurus).

Nopcsa, F. 1908 A, 47 (Thinosaurus).

Middle Eocene (Bridger); Wyoming.

Saniwa crassa (Marsh).

Marsh, O. C. 1872 K, 301 (Thinosaurus).

Hay, O. P. 1902 A, 476 (Thinosaurus).

Gilmore, C. W. 1922 D, 25.

1927 G, 6, 10, 80 (Thinosaurus); 8, 10, 54, 56, 80, pl. x, figs. 6-10; text-fig. 47 (Saniwa); 1, 6, 10 (S. major).

Nopcsa, F. 1908 A, 47 (Thinosaurus).

Middle Eocene (Bridger); Wyoming: Upper Eocene (Uinta); Wyoming.

Saniwa ensidens Leidy.

Hay, O. P. 1902 A, 475 (S. ensidens, S. major); 476 (S. leptodus).

Fejérváry, G. J. 1918 A, 420, 444, text-fig. 20 (Saniva); 444 (Saniva major).

Gilmore, C. W. 1922 D, 1-28, pls. i-iii; text-figs. 2-19 (S. ensidens); 25 (S. leptodus).

Gilmore, C. W. 1927 G, 6, 8, 10, 54, 56, pl. iii; pl. iv, figs. 1, 2; pls. v-vii; pl. viii; text-figs. 31-33, 35-38, 52, 53 (Saniwa); 6, 10, 58 (Thinosaurus leptodus).

Merrill, G. P. 1907 A, 77.

Nopcsa, F. 1908 A, 46 (Saniva ensidens, S. major); 47 (Thinosaurus leptodus).

Wetmore, A. 1922 A, 455 (S. major).

Lower Eocene (Wasatch); Wyoming: Middle Eocene (Bridger); Wyoming.

Saniwa grandis (Marsh).

Hay, O. P. 1902 A, 476 (Thinosaurus).

Gilmore, C. W. 1922 D, 25.

1927 G, 8, 10, 54, 78, pl. x, figs. 1-5 (Saniwa); 6-10, 78 (Thinosaurus).

Middle Eocene (Bridger); Wyoming: Lower Eocene (Wind River); Wyoming.

Saniwa paucidens (Marsh).

Hay, O. P. 1902 A, 476 (Thinosaurus).

Gilmore, C. W. 1922 D, 25.

1927 G, 1, 6, 10, 53, 54, 77 (Thinosaurus); 8, 10, 54, 77, pl. ix, figs. 7-9 (Saniwa).

Middle Eocene (Bridger); Wyoming: Upper Eocene (Uinta); Wyoming.

Saniwa sp. indet.

Gilmore, C. W. 1923 B, 52. Upper Cretaceous (Belly River); Alberta.

Camp, C. L. 1923 A, 442, fig. 23 (Thinosaurus).

Gilmore, C. W. 1927 G, 83, text-fig. 54. Eocene (White River); Nebraska: Eocene (Huerfano); Colorado.

PALÆOSANIWA Gilmore. Type *P. canadensis* Gilmore.

Gilmore, C. W. 1927 G, 5, 8, 53, 83.

Palæosaniwa canadensis Gilmore.

Gilmore, C. W. 1927 G, 5, 8, 10, 84, pl. xi, figs. 5-6*a*; text-fig. 55.

Upper Cretaceous (Belly River); Alberta.

PARASANIWA Gilmore. Type *P. wyomingensis* Gilmore.

Gilmore, C. W. 1927 G, 5, 8, 53, 85.

Parasaniwa obtusa Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 86, pl. xxvi, figs. 10, 12; text-figs. 56, 57.

Upper Cretaceous (Lance); Wyoming.

Parasaniwa wyomingensis Gilmore.

Gilmore, C. W. 1927 G, 8, 85, pl. xxvi, fig. 11.

Upper Cretaceous (Lance); Wyoming.

HELODERMIDÆ Gray.

Gray, J. E. 1837, Proc. Zool. Soc. Lond., 132.

Baur, G. 1889 F, 473.

Boulenger, G. A. 1884 A, 120, 122 (Helodermatidæ).

1885 A, 300 (Helodermatidæ).

1885 B, 78.

1891 A, 109, figs. (Helodermatidæ).

1891 D, 109, 116 (Helodermatidæ).

1918 D, 890 ("hélodermatides").

Camp, C. L. 1923 A, 297, 301, 333, etc., figs. 98, 100 (Helodermatidæ).

Cope, E. D. 1864 A, 228.

1900 A, 473, 1257 (Helodermatidæ); 472 (Helodermatoidea).

Fürbringer, M. 1900 A, 241, 609, 621.

Gill, T. 1886 C, 800, 802 (Helodermatidæ); 802 (Helodermatoidea).

Gilmore, C. W. 1927 G, 8, 88, 92.

Hoffman, C. K. 1890 B, 1064, 1071.

Juhn, M. 1923 A, 71.

Lakjer, T. 1927 A, 91, 266 (Helodermatidæ).

Nopcsa, F. 1908 A, 49, 51 (Helodermatidæ).

1923 H, 75, 124 (Helodermatinæ).

1928 A, 177 (Helodermatinæ).

Owen, R. 1845 B, 264 ("heloderm").

Schmidt, W. J. 1912 B, 142 ("helodermatiden").

Versluys, J. 1898 A, 219 (Helodermatidæ).

Wiegmann, A. F. A. 1834 A, 23 (Trachydermi).

Williston, S. W. 1925 A, 67, 71 (Helodermatidæ).

1925 B, 267 (Helodermatidæ).

Zittel and Broili 1923 A, 257 (Helodermatidæ).

Heloderma Wiegmann. Type *Trachyderma horridum* Wiegmann.

Wiegmann, F. A. 1829 A, col. 421 (Trachyderma; preoccupied).
Baur, G. 1889 C, 239.
1891 F, 334.
Boulenger, G. A. 1891 D, 109, figs. 1-3, 5.
Cope, E. D. 1864 A, 228.
Fuchs, H. 1927 A, 316.
Fürbringer, M. 1900 A, 236, 621, figs. 3, 11, 38.
Gilmore, C. W. 1927 G, 5, 6, 8, 15, 88.
Hoffmann, C. K. 1890 B, 1064.
Kingsley, J. S. 1925 A, 156, fig. 166.
Lakjer, T. 1927 A, 91, fig. 12.
Moodie, R. L. 1907 A, 85, 88.
Nopcsa, F. 1923 E, 1056, fig. 9.
1923 H, 74-76.
Schmidt, W. J. 1912 C, 219, pl. xiii; text-figs. 1-3.
Shufeldt, R. 1890 D, 235, pls. xvi-xviii.
Troschel, F. H. 1853 A, 294, pls. xiii, xiv.
Versluys, J. 1898 A, 219.
Wiegmann, A. F. A. 1829 B, col. 627.
1834 A, 23, pl. i.

Heloderma matthewi Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 89, pl. xi, figs. 1, 1*a*; text-figs. 58, 59.
Oligocene (White River); Colorado.

ANGUIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 66.
Hay, O. P. 1902 A, 474.
Adloff, P. 1918 A, 132, figs. 1, 2 (Anguis).
Arldt, T. 1912 A, 712.
Batelli, A. 1880 A, 359 (Anguis).
Bogoljubsky, S. 1914 A, 653 (Anguis).
Bonaparte, C. L. 1833 B, 1185.
Boulenger, G. A. 1891 D, 113, 116.
1893 B, 208.
1901 B, 402.
1918 D, 890 ("anguides").
Cope, E. D. 1892 CC, 227.
1900 A, 488.
Corning, H. K. 1891 A, 613, pl. xxx (Anguis).
Dendy, A. 1907 A, 288 (Anguis).
Fejérváry, G. J. 1918 A, 440.
Fürbringer, M. 1900 A.
1902 B, 203 ("anguiden").
Gadow, H. 1896 A, 29.
1901 B, 537.
Gaupp, E. 1905 D, 1011.
1910 A, 538.
1911 B, 107.
1911 C, 446.
Gelderen, C. 1925 A, 496 (Anguis).
Gill, T. 1886 C, 802.
Gilmore, C. W. 1927 G, 5, 8, 89, fig. 60 (Anguidæ); 91, 93 (Glyptosauridæ).
Goeppert, E. 1897 A, 247 (Anguis).
Hanson, F. B. 1919 B, 71 (Anguis).
Hayek, H. 1924 A, 139, pl. ii (Anguis).
Hoffmann, C. K. 1890 B, 1133, 1155, pls. (Anguis).
Juhn, M. 1923 A (Anguis).
Lakjer, T. 1927 A, 95, 266, 267, fig. 16 (Anguis).
Lebedinsky, N. G. 1917 A, 334, figs. 23, 24 (Anguis).
Leydig, F. 1890 A, 489 (Anguis).
Lydekker, R. 1912 C, 41, 113, 131.
Mayer, C. 1824 C, 831 (Anguis).
Nopcsa, F. 1908 A, 495 (Anguinidæ).
1923 G, 111, 122, 148 ("anguiniden").
1923 H, 74 ("anguiniden").
1928 A, 176 (Anguinidæ).
Nowikoff, M. 1907 A (Anguis).
Osborn, H. F. 1909 D, 47.
Otto, H. 1908 A, 193-252, fig. 2 (Anguis).
Owen, R. 1845 B, 235 ("anguians").
Palacký, J. 1899 C, 253, 281 ("anguiden").
1902 B, 145 ("anguiden").
Scharff, R. F. 1911 A, 202, 281, 348.
Schmidt, W. J. 1909 A, 362.
1910 A ("anguiden").
1912 A, 84 ("anguiden").
1912 B, 142 ("anguiden").
1914 A, 1 ("anguiden").
Seydel, O. 1899 A, 496, fig. 21 (Anguis).
Sirena, S. 1872 A, 132 (Anguis).
Spencer, W. B. 1886 A, 204 (Anguis).
Stehli, G. 1910 A, 748 (Anguis).
Thäter, K. 1910 A, 504.
Versluys, J. 1898 A, 212.
Williston, S. W. 1925 B, 267 (Anguinidæ).
Zimmermann, S. 1913 A, 594 (Anguis).

Glyptosaurus Marsh. Type *G. sylvestris* Marsh.

Hay, O. P. 1902 A, 475.
Abel, O. 1926 B, 338.
Ameghino, F. 1893 E, 731.
1909 B, 94, 97, 110 (Helodermoides).
Boulenger, G. A. 1891 D, 116.
Camp, C. L. 1923 A, 327, 474, figs. 95, 96 (Glyptosaurus); 327 (Helodermoides).
Douglass, E. 1903 A, 160 (Helodermoides; type *H. tuberculatus*).
1905 A, 211 (Helodermoides).
Gilmore, C. W. 1915 H, 159.
1927 G, 3, 7, 9, 90, 91 (Glyptosaurus); 7, 9, 10, 92 (Helodermoides).
Matthew, W. D. 1915 A, 289.
Nopcsa, F. 1923 H, 76.
1928 A, 177.
Osborn, H. F. 1909 D, 47, 49.
Williston, S. W. 1925 B, 268 (Glyptosaurus, Helodermatoides).

Glyptosaurus giganteus Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 94, 95, 119; pl. xiv, fig. 1.
Oligocene (White River); Nebraska.

Glyptosaurus hillsi Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 94, 95, 107, pl. iv, fig. 3; pl. xvii; text-figs. 62-67.

Hills, R. C. 1889 A, 221 ("Glyptosaurus").
Osborn, H. F. 1897 G, 249 ("Glyptosaurus").
1909 D, 49 ("Glyptosaurus").
1910 B, 129 ("Glyptosaurus").
Middle Eocene (Huerfano); Colorado.

Glyptosaurus montanus Douglass.

Douglass, E. 1908 C, 278, figs. 1, 2 (This genus?).
Gilmore, C. W. 1915 H, 160.
1927 G, 4, 7, 8, 9, 93, 95, 115, text-fig. 72.
Lower Oligocene (Titanotherium); Montana.

Glyptosaurus nodosus Marsh.

Hay, O. P. 1902 A, 475.
Douglass, E. 1908 C, 282.
Gilmore, C. W. 1915 H, 160.
1927 G, 3, 6, 8, 9, 94, 104, pl. xiv, figs. 2-5.
Nopcsa, F. 1908 A, 40.
Middle Eocene (Bridger); Wyoming.

Glyptosaurus obtusidens Loomis.

Loomis, F. B. 1907 B, 358, 363, fig. 3.
Cope, E. D. 1877 K, 42, pl. xxxii, figs. 26, 36 (Placosauridæ).
Gilmore, C. W. 1927 G, 4, 7, 8, 9, 94, 95, 117, pl. xix, figs. 1, 2 (G. obtusidens); pl. xx, figs. 12-12j (Placosauridæ).
Lower Eocene (Wasatch); Wyoming, New Mexico.

Glyptosaurus princeps Marsh.

Hay, O. P. 1902 A, 475.
Douglass, E. 1908 C, 282.
Gilmore, C. W. 1915 H, 160.
1927 G, 6, 8, 9, 94, 95, 102, pl. xv, figs. 1, 3, 4, 7, 8.
Nopcsa, F. 1908 A, 40.
Middle Eocene (Bridger); Wyoming.

Glyptosaurus rugosus Marsh.

Hay, O. P. 1902 A, 475.
Boulenger, G. A. 1891 A, 116.
1891 D, 116.
Douglass, E. 1908 C, 282.
Gilmore, C. W. 1915 H, 160.
1927 G, 6, 8, 9, 94, 95, 104, pl. xvi.
Nopcsa, F. 1908 A, 40.
Middle Eocene (Bridger); Wyoming.

Glyptosaurus sphenodon Marsh.

Hay, O. P. 1902 A, 475.
Douglass, E. 1908 C, 283.
Gilmore, C. W. 1915 H, 160.
1927 G, 6, 8, 9, 94, 95, 106, pl. xviii, figs. 12, 13.
Nopcsa, F. 1908 A, 40.
Middle Eocene (Bridger); Wyoming.

Glyptosaurus sylvestris Marsh.

Hay, O. P. 1902 A, 475 (G. sylvestris, G. ocellatus).
Douglass, E. 1908 C, 281 (G. sylvestris, G. brevidens, G. ocellatus).
Gilmore, C. W. 1915 H, 160 (G. anceps, G. sylvestris, G. brevidens, G. ocellatus).
1927 G, 3, 6, 8, 9, 46, 94, 95, 96, pl. iv, fig. 4; pls. xii-xiv; text-fig. 61 (G. sylvestris); 3, 9, 96 (G. ocellatus); 6, 96 (G. brevidens).
Nopcsa, F. 1908 A, 40 (G. sylvestris, G. brevidens, G. ocellatus).
Middle Eocene (Bridger); Wyoming.

Glyptosaurus tuberculatus (Douglass).

Douglass, E. 1903 A, 149, 160, figs. 4, 5 (Helodermoides).
1908 C, 280 (Helodermoides).
Gilmore, C. W. 1927 G, 8, 9, 94, 95, 113, pl. xviii, figs. 1-11; text-figs. 68, 69 (Glyptosaurus); 7, 9, 113 (Helodermoides).
Nopcsa, F. 1908 A, 40 (Helodermoides).
Oligocene (Pipestone Creek beds, White River); Montana.

Glyptosaurus sp. indet.

Gilmore, C. W. 1915 H, 159, 160. Upper Eocene (Uinta); Utah.
1927 G, 94, 119. Oligocene (Lower White River); Canada: Eocene (Upper Uinta); Utah: Eocene (Wind River); Wyoming: Eocene (Upper Huerfano, Pawnee Creek); Colorado: Oligocene (Cypress Hills); Saskatchewan.
Sinclair and Granger 1911 A, 91. Eocene (Wind River); Wyoming.

PELTOSAURUS Cope. Type *P. granulosus* Cope.

Hay, O. P. 1902 A, 475.
Gilmore, C. W. 1926 K, 229.
1927 G, 7, 9, 90, 93, 120, text-fig. 96.
Matthew, W. D. 1915 A, 289.
Nopcsa, F. 1928 A, 177.
Seeley, H. G. 1886 A, 512.

Peltosaurus abbotti Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 121, 131, 135, pl. xxii, figs. 1, 2; text-fig. 83.
Oligocene (White River); South Dakota.

Peltosaurus granulosus Cope.

Hay, O. P. 1902 A, 475.
Douglass, E. 1908 C, 284, figs. 6-8 (This species?).
Gilmore, C. W. 1926 K, 229, pl. xv.
1927 G, 6, 8, 9, 93, 121, 122, pl. xx, figs. 1-9; pl. xxii, fig. 3; text-figs. 73, 75-79, 82.
Lambe, L. M. 1905 D, 366 A.
1908 A, 9, 19, pl. i, figs. 23-25.
Nopcsa, F. 1908 A, 44.
Sinclair, W. J. 1924 A, 132.
Oligocene (White River); Colorado, South Dakota, Nebraska.

Peltosaurus? piger Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 121, 136, pl. xxvi, figs. 4-6*a*; text-fig. 85.
Upper Cretaceous (Lance); Wyoming.

Peltosaurus sp. indet.

Gilmore, C. W. 1927 G, 137. Paleocene (Fort Union); Montana: (Torrejon); New Mexico: Oligocene (Cypress Hills); Saskatchewan.

MELANOSAURUS Gilmore. Type *M. maximus* Gilmore.

Gilmore, C. W. 1927 G, 8, 11, 93, 138.

Melanosaurus maximus Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 93, 138, pl. xv, fig. 2; pls. xxiii, xxiv; text-figs. 86-92, 94, 95.
Lower Eocene (Wasatch); Wyoming.

XESTOPS Cope. Type *Oreosaurus vagans* Marsh.

Hay, O. P. 1902 A, 475.
Camp, C. L. 1923 A, 327, 329, figs. 1, 94, 101-103, 106, 107, 109-111.
Gilmore, C. W. 1927 G, 7, 10, 90, 93, 144, text-fig. 96.
Nopcsa, F. 1928 A, 177.

Xestops? gracilis (Marsh).

Hay, O. P. 1902 A, 475.
Gilmore, C. W. 1927 G, 6, 8, 10, 144, 146, pl. ii, figs. 5-10.
Nopcsa, F. 1908 A, 48.
Middle Eocene (Bridger); Wyoming.

Xestops? lentus (Marsh).

Hay, O. P. 1902 A, 475.
Gilmore, C. W. 1927 G, 6, 8, 10, 144, 149, pl. ii, figs. 13, 13*a*.
Nopcsa, F. 1908 A, 48.
Middle Eocene (Bridger); Wyoming.

Xestops? microdus (Marsh).

Hay, O. P. 1902 A, 475.
Gilmore, C. W. 1927 G, 6, 8, 10, 144, 148, pl. ii, figs. 2, 3.
Nopcsa, F. 1908 A, 48.
Middle Eocene (Bridger); Wyoming.

Xestops? minutus (Marsh).

Hay, O. P. 1902 A, 475.
Gilmore, C. W. 1927 G, 6, 8, 10, 144, 147, pl. ii, figs. 11, 12.
Nopcsa, F. 1908 A, 48 (X. miuntis).
Middle Eocene (Bridger); Wyoming.

Xestops? pawneensis Gilmore.

Gilmore, C. W. 1927 G, 8, 10, 144, 150.
Oligocene (White River); Colorado.

Xestops vagans (Marsh).

Hay, O. P. 1902 A, 475.
Gilmore, C. W. 1927 G, 6, 8, 10, 144, 145, pl. xix, figs. 3-11.
Nopcsa, F. 1908 A, 48.
Middle Eocene (Bridger); Wyoming.

SAURIA OF UNDETERMINED FAMILIES.

ALETHESAURUS Gilmore. Type *A. quadratus* Gilmore.

Gilmore, C. W. 1927 G, 9, 162.

Alethesaurus quadratus Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 162, pl. xxvi, fig. 13.
Upper Cretaceous (Lance); Wyoming.

CREMASTOSAURUS Cope. Type *C. carinicollis* Cope.

Hay, O. P. 1902 A, 477.
Broili, F. 1908 E, 297.
Gilmore, C. W. 1927 G, 7, 9, 151.
Williston, S. W. 1925 B, 274.

Cremastosaurus carinicollis Cope.

Hay, O. P. 1902 A, 477.
Gilmore, C. W. 1927 G, 6, 9, 34, 151, pl. xxv, figs. 3-3*c*.
Nopcsa, F. 1908 A, 38.
Seeley, H. G. 1886 A, 513.
Oligocene (White River); Colorado.

Cremastosaurus rhambastes (Cope).

Hay, O. P. 1902 A, 477 (Platyrhachis).
Gilmore, C. W. 1927 G, 10, 152, pl. xxv, figs. 8-8*c* (Cremastosaurus); 6, 9, 10, 34, 152 (Platyrhachis).
Nopcsa, F. 1908 A, 44 (Platyrhachis rhambestes).
Oligocene (White River); Colorado.

Cremastosaurus unipedalis (Cope).

Hay, O. P. 1902 A, 477 (Platyrhachis).
Gilmore, C. W. 1927 G, 9, 153, pl. xxvi, figs. 1-1*b* (Cremastosaurus); 6, 9, 10, 34, 152 (Platyrhachis); 9, 153 (Diacium).
Nopcsa, F. 1908 A, 44 (Platyrhachis).
Oligocene (White River); Colorado.

CTENIOGENYS Gilmore. Type *C. antiquus* Gilmore.

Gilmore, C. W. 1927 G, 9, 162.

Cteniogenys antiquus Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 162, pl. xx, figs. 13, 14.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

DIACIUM Cope. Type *D. quinquepedale* Cope.

Hay, O. P. 1902 A, 477.
Broili, F. 1908 E, 297.
Gilmore, C. W. 1927 G, 7, 9, 153.
Williston, S. W. 1925 B, 274.

Diacium quinquepedale Cope.

Hay, O. P. 1902 A, 477.
Gilmore, C. W. 1927 G, 6, 9, 34, 154, pl. xxv, figs. 2-2*c*.
Nopcsa, F. 1908 A, 38.
Seeley, H. G. 1886 A, 513.
Oligocene (White River); Colorado.

HABROSAURUS Gilmore. Type *H. dilatus* Gilmore.

Gilmore, C. W. 1927 G, 9, 161.

Habrosaurus dilatus Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 161, pl. xxvi, figs. 7, 9; text-fig. 106.
Upper Cretaceous (Lance); Wyoming.

HARPAGOSAURUS Gilmore. Type *H. parvus* Gilmore.

Gilmore, C. W. 1927 G, 9, 156.

Harpagosaurus excedens Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 157, text-figs. 99, 100.
Paleocene (Fort Union); Montana.

Harpagosaurus parvus Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 156, text-fig. 98.
Upper Cretaceous (Lance); Wyoming.

LANCEOSAURUS Gilmore. Type *L. hatcheri* Gilmore.

Gilmore, C. W. 1927 G, 9, 160.

Lanceosaurus compressus Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 161, text-fig. 105.
Upper Cretaceous (Lance); Wyoming.

Lanceosaurus hatcheri Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 160, pl. xxvi, fig. 8; text-fig. 104.
Upper Cretaceous (Lance); Wyoming.

MACHÆROSAURUS Gilmore. Type *M. torrejonensis* Gilmore.

Gilmore, C. W. 1927 G, 9, 155.

Machærosaurus torrejonensis Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 155, pl. iv, fig. 5.
Paleocene (Torrejon); New Mexico.

MEGASAURUS Gilmore. Type *M. robustus* Gilmore.

Gilmore, C. W. 1927 G, 9, 157.

Megasaurus robustus Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 157, pl. xxvii, figs. 1, 1*a*.
Upper Cretaceous (Lance); Wyoming.

NAOCEPHALUS Cope. Type *N. porrectus* Cope.

Cope, E. D. 1872 NN, 6.
Hay, O. P. 1902 A, 477.
Gilmore, C. W. 1927 G, 9, 154.
Nopcsa, F. 1908 A, 43.
1923 H, 76.
Williston, S. W. 1925 B, 274.

Naocephalus porrectus Cope.

Cope, E. D. 1872 NN, 6.
Hay, O. P. 1902 A, 477.
Gilmore, C. W. 1927 G, 1, 6, 9, 34, 154.
Nopcsa, F. 1908 A, 43.
Middle Eocene (Bridger); Wyoming.

ODAXOSAURUS Gilmore. Type *O. obliquus* Gilmore.

Gilmore, C. W. 1927 G, 9, 158.

Odaxosaurus obliquus Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 158, pl. xxvi, figs. 3, 5; text-figs. 101, 102.
Upper Cretaceous (Lance); Wyoming.

PRIONOSAURUS Gilmore. Type *P. regularis* Gilmore.

Gilmore, C. W. 1927 G, 9, 159.

Prionosaurus regularis Gilmore.

Gilmore, C. W. 1927 G, 9, 10, 159, pl. xxvi, fig. 1; text-fig. 103.
Upper Cretaceous (Lance); Wyoming.

Suborder MOSASAURIFORMES, new name.

Hay, O. P. 1902 A, 464 (Pythonomorpha).
Abel, O. 1904 B, 741 (Pythonomorpha).
1905 B, 203 ("mosasauriens").
1907 A, 226 ("pythonomorphen").
1907 G, 16, fig. 10 ("mososaurier").
1908 E, 406 ("pythonomorphen").
1908 G, (44) ("pythonomorphen").
1910 B, (186) (Pythonomorpha).
1912 F, 123, 460, 686 ("mosasaurier"); 159 ("pythonomorphen").
1919 A, 666 (Mosasauria).
1920 A, 397 (Mosasauria).
1921 A, 222 ("mososaurier").
1922 C, 306 ("mosasaurier").
Anderson, R. J. 1912 D, 251 (Pythonomorphia).
Arldt, T. 1907 D, 678 (Pythonomorpha).
Arthaber, G. 1906 A, 319 ("pythonomorphen").
Bardeleben, K. 1901 A, 46 ("mosasaurier").
Baur, G. 1889 L, 312 (Mosasauria).
Beard, J. C. 1901 B, 267 ("mosasaurs").
Boas, J. E. V. 1914 B, 560 ("mosasaurier").
Bogolubow, N. 1910 A, 8 ("mosasauriens").
Boule, M. 1891 A, 10 ("mosasauriens").
1902 B, 906 ("mosasauriens").
Boulenger, G. A. 1891 D, 117 (Pythonomorpha).
1893 B, 205 (Pythonomorpha).
1917 D, 1045 ("mosasaurs").
Brauns, D. 1890 A, 151, 202 (Pythomomorpha).
Broom, R. 1901 A, 188 (Pythonomorpha).
1913 C, 507 ("mosasaurs").
1924 B, 64, fig. 13 (Pythonomorpha).
Camp, C. L. 1923 A, 297, 300, 322, etc. (Mosasauriodea).
Camper, A. 1812 A, 215, pls. i-iii ("sauroïdes de Maestricht").
Case, E. C. 1898 C, 718 ("mosasaurs").
1905 E, 179 ("mosasaurs").
Cope, E. D. 1880 U, 146 ("pythonomorphes").
1891 N, 45, 50 (Pythonomorpha).
Dames, W. 1899 D, 552 ("mosasaurier").
Depéret, C. 1907 B ("pythonomorphes").
Diener, C. 1909 A, 41 ("pythonomorphen").
Döderlein, L. 1900 A, 335 (Pythonomorpha).
Dollo, L. 1889 K, 271 ("mosasauriens").
1903 B, 137 ("mosasauriens").
1904 A, 207 ("mosasauriens").
1904 B, 217 ("mosasauriens").
1909 A, 106 ("mosasaurs").
1913 B, 615 ("mosasauriens").
1924 A, 172, 184, 187, 196 ("mosasauriens").
Duncan, P. M. 1878 A, 752 ("mosasaurs").
Fejérváry, G. J. 1918 A, 434 (Mosasauria).
Fraas, E. 1901 B, cxxvi ("pythonomorphen").
1902 B, 6 ("pythonomorphen").
1905 B, 373 ("mosasaurier").
Frech, F. 1906 A, 494 ("mosasaurier").
Fuchs, H. 1908 C, 213 ("pythonomorphen").
1909 B, 149 (Mosasauria).
Fürbringer, M. 1900 A (Mosasauria).
1904 A, 585 (Mosasauria).
Gadow, H. 1901 B, 487 (Pythonomorpha); 489 (Mosasauri).
1902 B, 359 (Pythonomorpha).
1914 A, 503 ("pythonomorphs").
Gaupp, E. 1911 C, 445 ("pythonomorphen").
1912 B, 233 ("pythonomorphen").
1913 A, 58 ("mosasaurier").
Gervais, P. 1859 A, 461 ("mosasauridés").
Gill, T. 1881 A, 376 ("mosasauroids").
Gilmore, C. W. 1927 G, 14, 73, 86, 87 (Mosasauroidea).
Goodrich, E. S. 1916 A, 264 (Pythonomorpha).
Heilprin, A. 1887 A, 169, 172 (Pythonomorpha).
Hoernes, R. 1886 A, 608 (Pythonomorpha).
1912 A, 661 (Pythonomorpha).
Howes and Swinnerton 1901 A, 29, 69 (Mosasauria).
Huene, F. 1910 B, 50 ("mosasaurier").
1910 D, 313 ("mosasauriden").
1914 G, 47, pl. vii ("mosasaurier").
Hutchinson, H. N. 1910 A, 187 ("sea-serpents").
Jaekel, O. 1902 A, 110 ("mosasaurier").
1905 B, 61 (Mosasauria).
1908 B, 464 ("mosasaurier").
1910 C, 336 (Mosasauri).
1911 A, 154 (Mosasauri).
1913 C, 14 ("mosasaurier").
Janensch, W. 1906 A, 30 ("pythonomorphen").
Juhn, M. 1923 A, 71 (Mosasauria).
Kingsley, J. S. 1905 A, 62 ("mosasaurs").
1912 B, 93 ("pythonomorphs").
1925 A, 186 (Pythonomorpha).
Koken, E. 1901 B, 221 ("mosasaurier").
Lavocat, A. 1885 A, 34 ("mosasaures").
Lydekker, R. 1912 C, 4, 106, 132 (Pythonomorpha).
Matthew, W. D. 1916 C, 519 ("mosasaurs").
Merriam, J. C. 1912 B, 222 (Mosasauria).
Moodie, R. L. 1907 A, 91 (Mosasauria).
1923 B, 563 ("mosasaurs").
1926 A, 90 ("mosasaurs").
Nopcsa, F. 1903 A, 119 ("mosasaurs").
1903 C, 38 (Pythonomorpha).
1922 A, 115 ("mosasaurier").
1923 B, 357 ("mosasaurier").
1923 G, 109, 110, 111, 140.
1923 H, 1, 2, 8, 56, 73, 75, 76, 163, 181 (Pythonomorpha); 124 (Pythonomorphidæ); 4, 76, 113, 162 (Mosasauria).
1926 A, 638 (Mosasauria).
Osborn, H. F. 1903 H, 456 (Mosasauria).
1904 H, 114 (Mosasauria).
1905 C, 295 (Mosasauria).
1905 N, 240 (Mosasauria).
1912 J, 5 ("mosasaurs").
1917 B, 201, 209 (Mosasauria).
Osburn, R. C. 1906 A, 448 (Mosasauria).

Palacký, J. 1902 B, 141 (Pythonomorphi).
Parker and Haswell 1897 A, 312, 349 (Pythonomorpha).
Pompeckj, J. F. 1910 A, 127 (Mosasauria).
    1925 A, 6, 10 ("mosasaurier").
Reynolds, S. H. 1897 A, 204, 273, 284, 287, 290 (Pythonomorpha).
Rogenhofer, A. 1908 A, (44) ("pythonomorphen").
Schwarz, H. 1908 B, 100 ("mosasaurier").
Seeley, H. G. 1878 C, 752 ("mosasaurians").
Sewertzoff, A. N. 1908 A, 300 (Mosasauria).
Steinmann, G. 1907 A, 442 (Thalattosauria).
    1908 A, 235, 239 (Mosasauria); 237, 239 (Thalattosauria).
    1912 A, 49 ("mosasaurier").
Stremme, H. 1909 A, 505 ("pythonomorphen")
Stromer, E. 1912 A, 76 (Mosasauria).
Thyng, F. W. 1906 A, 58 (Pythonomorpha).
Versluys, J. 1912 A, 491 ("mosasaurier").
    1912 B, 631, 687 (Mosasauria).
Watson, D. M. S. 1919 A, 293 ("mosasaurs")
Wegner, R. N. 1922 A, 489 (Mosasauria).
Williston, S. W. 1893 D, 110 ("mosasaurs").
    1902 F, 261 (Mosasauria).
    1903 A, 26 (Pythonomorpha).
    1904 A, 43, 48 (Mosasauria).
    1914 A, 17, 45, 148 ("mosasaurs").
    1915 C, 371 ("mosasaurs").
    1917 C, 412 (Mosasauria).
    1918 A, 79 (Mosasauria).
    1925 A, *passim* (Mosasauria).
    1925 B, 212, 272 (Pythonomorpha).
Woodward, A. S. 1897 C, 380 (Pythonomorpha).
    1898 E, 330 (Pythonomorpha).
    1909 A, 327 (Mosasauria).
    1910 B, 467 (Mosasauria).
    1922 C, 4 (Mosasauria).
    1923 A, 33 ("mosasaurians").
Zittel and Broili 1911 A, 21 (Mosasauria).
    1923 A, 258 (Mosasauria).
Zittel and Eastman, etc. 1902 A, 152 (Pythonomorpha).

MOSASAURIDÆ.

Hay, O. P. 1902 A, 464.
Arldt, T. 1907 D, 666.
Beard, J. C. 1901 B, 267.
Boulenger, G. A. 1891 D, 113, 116.
    1893 B, 205.
Camp, C. L. 1923 A, 297, 301, 333.
Dames, W. 1883 C, 270.
Dollo, L. 1884 E, 68.
    1923 A, 80 ("mosasauriens").
    1924 A, 188.
Douglass, E. 1902 C, 212 ("mosasaurs").
Gervais, P. 1859 A, 461 ("mosasauridés").
Gilmore, C. W. 1926 L, 191.
Huene, F. 1922 D, 278 ("mosasauriden").
Lucas, F. A. 1901 J, 50 ("mosasaurs").
Marsh, O. C. 1872 U, 20 ("Mosasaurus").
Matthew, W. D. 1921 D, 211.
Nopcsa, F. 1903 C, 39.
    1908 A, 56 ("mosasauriden").
    1926 A, 638.
    1928 A, 177.
Sauvage, H. E. 1901 B, 9 ("mosasaurs").
Tornier, G. 1913 B, 345, 347.
Williston, S. W. 1925 A, 70.
Zittel and Broili 1911 A, 211.
    1923 A, 258.
Zittel, Eastman, etc. 1902 A, 157.

TYLOSAURINÆ Williston.

Hay, O. P. 1902 A, 471.
Case, E. C. 1898 C, 719.
Dames, W. 1899 D, 552.
Dollo, L. 1924 A, 198.
Sauvage, H. E. 1901 B, 11.
Williston, S. W. 1902 F, 263.
Zittel, Eastman, etc. 1902 A, 157.

TYLOSAURUS Marsh. Type *T. micromus* Marsh.

Hay, O. P. 1902 A, 471.
Abel, O. 1912 F, 123, fig. 66.
    1919 A, 677.
Bogolubow, N. 1910 A, 8 (Liodon).
Boule, M. 1902 B, 906, fig. 6.
Broili, F. 1926 C, 33.
Camp, C. L. 1923 A, 323.
Case, E. C. 1898 C, 719.
Dames, W. 1899 D, 552.
Darton, N. H. 1915 A, 47, pl. v.
Dollo, L. 1889 K, 275, 281.
    1909 A, 106.
Drevermann, F. 1914 A, 41, fig. 6.
Fraas, E. 1905 B, 373.
Howes, G. B. 1902 A, 525.
Huene, F. 1910 D, 297.
    1925 D, 234.
Janensch, W. 1906 A, 31.
Lee, Stone, Gale 1915 A, pl. v, fig. B.
Lucas, F. A. 1901 F, 485, 490; pl. iv.
Lull, R. S. 1919 A, 223.
Nopcsa, F. 1903 C, 38, pl. v, fig. 9; pl. vi, figs. 3, 11.
    1908 A, 56, fig. 2.
    1923 E, 1051, fig. 8.
    1923 H, 163.
    1926 A, 657.
Osborn, H. F. 1917 B, 200, 209, 210, figs.
    1918 D, 683.
    1919 A, 71.
Osburn, R. C. 1906 A, 450.
Pompeckj, J. F. 1910 A, 133.
Rogers, A. F. 1924 A, 545.
Sauvage, H. E. 1901 B, 9, 10.
    1902 B, 11.
Schuchert and Levene 1927 A, 305, fig.
Sternberg, C. H. 1881 B, 3 (Leiodon).
    1899 C, 259.
    1905 A, 126.
    1917 A, 13, 160, fig. 5 ("tylosaur").
Williston, S. W. 1893 L, 32.
    1902 F, 261, 263.

Williston, S. W. 1907 A, 484.
1908 H, 163.
1911 B, 46.
1914 A, 153, 166, figs. 70, 72, 75, 78, 79.
1925 A, 67, 180, 193, 199, fig. 54.
1925 B, 272.
Wiman, C. 1920 A, 12.
Zittel and Broili 1911 A, 217.
1923 A, 255, 265.

Tylosaurus congrops (Cope).

Hay, O. P. 1902 A, 472.
Upper Cretaceous (Selma?); Alabama.

Tylosaurus dyspelor (Cope).

Hay, O. P. 1902 A, 472.
Abel, O. 1909 F, 468, fig. 7.
1912 F, 123.
1919 A, 665, figs. 521, 523, 526, 531.
1920 A, 399, figs. 619, 620.
1922 C, 308, 313, figs. 260, 267, 268.
Camp, C. L. 1923 A, 413.
Fejérváry, G. J. 1918 A, 436, figs. 25, 27.
Gaupp, E. 1913 A, 97, fig. 58.
Huene, F. 1909 F, 586, fig. 4.
1910 D, 298, pls. i, ii; text-figs. 1-11.
1919 A, 183, pl. viii, fig. 1.
Lambe, L. M. 1914 H, 402.
Lucas, F. A. 1901 J, 52, fig. 9.
Merrill, G. P. 1907 A, 74 (Liodon); 80 (Tylosaurus).
Osborn, H. F. 1904 F, 31, 49.
Sauvage, H. E. 1902 B, 11.
Sternberg, C. H. 1898 C, 268 ("Tylosaurus").
1908 A, 111, fig.
1909 C, 49, figs. 8, 9.
Williston, S. W. 1910 E, 538.
Wiman, C. 1920 A, 14, pl. iv, fig. 6.
Upper Cretaceous (Niobrara); Kansas, New Mexico.

Tylosaurus laticaudus (Marsh).

Hay, O. P. 1902 A, 472.
Upper Cretaceous; New Jersey.

Tylosaurus micromus Marsh.

Hay, O. P. 1902 A, 472.
Williston, S. W. 1902 E, 253 (Rhinosaurus).
Upper Cretaceous (Niobrara); Kansas.

Tylosaurus nepæolicus (Cope).

Hay, O. P. 1902 A, 472.
Bogolubow, N. 1910 A, 11 (Liodon).
Upper Cretaceous (Niobrara); Kansas.

Tylosaurus perlatus (Cope).

Hay, O. P. 1902 A, 472.
Upper Cretaceous (Selma?); Alabama.

Tylosaurus proriger (Cope).

Hay, O. P. 1902 A, 472.
Ballou, W. H. 1897 A, 23, fig. 21 ("Nectoportheus proriger").
Bogolubow, N. 1910 A, 10 (Liodon).
Cope, E. D. 1869 P, 122 (Macrasaurus pririger).
Gilmore, C. W. 1921 B, 274, figs. 1, 2.
Lambe, L. M. 1914 H, 402.
Merrill, G. P. 1907 A, 80.
Osburn, R. C. 1906 A, pl. viii, fig. 25.
Pompeckj, J. F. 1910 A, 137.
Seitz, A. L. L. 1907 A, 341.
Sternberg, C. 1881 B, 3 (Leiodon).
1907 C, 122 (Tylosaurus).
Stromer, E. 1912 A, 11.
Tornier, G. 1913 B, 353, fig. 32.
Williston, S. W. 1898 L, 28.
1910 E, 538.
Upper Cretaceous (Niobrara); Kansas.

Tylosaurus rapax Hay.

Hay, O. P. 1902 A, 473.
Upper Cretaceous (Navesink?); New Jersey.

Tylosaurus sectorius (Cope).

Hay, O. P. 1902 A, 473.
Upper Cretaceous (Navesink?); New Jersey.

MACROSAURUS Owen. Type *M. lævis* Owen.

Hay, O. P. 1902 A, 471.

Macrosaurus lævis Owen.

Hay, O. P. 1902 A, 471.
Upper Cretaceous (Tombigbee or Selma); Mississippi.

Macrosaurus mitchillii (DeKay).

Hay, O. P. 1902 A, 471.
Upper Cretaceous (Navesink?); New Jersey.

PLATECARPINÆ Williston.

Hay, O. P. 1902 A, 468.
Case, E. C. 1898 C, 719.
Dames, W. 1899 D, 552.
Dollo, L. 1924 A, 198.
Sauvage, H. E. 1901 B, 11.
Zittel, Eastman, etc. 1902 A, 157.

PLATECARPUS Cope. Type *P. tympaniticus* Cope.

Hay, O. P. 1902 A, 469 (Platecarpus); 470 (Lestosaurus).
Abel, O. 1919 A, 675.
1922 C, 315.
Broili, F. 1926 B, 172, fig. 1.
Broili and Fischer 1917 A, 407, fig. 10.
Broom, R. 1921 A, 155, fig. 27.
Camp, C. L. 1923 A, 323.
Capps, S. R. 1907 A, 351.
Case, E. C. 1898 C, 720.
Dames, W. 1899 D, 552.
Dollo, L. 1889 K, 276, 282, 288, 297 (Platecarpus); 283, 288, 297 (Lestosaurus).
1909 A, 106.
Gadow, H. 1901 B, 490.
Huene, F. 1911 B, 48.
1912 G, 137.
Jaekel, O. 1905 C, 145, fig. 13.
Loomis, F. B. 1904 B, 254.
1915 A, 557 (Platycarpus).

Lull, R. S. 1919 A, 223.
Moodie, R. L. 1923 B, 216, 262, pl. xli.
1926 A, 68, 84, 89, 94, pls. xiii, xiv; text-figs. 6, 9.
Nopcsa, F. 1903 C, 38, pl. v, fig. 5; pl. vi, fig. 10.
1923 E, 1051, figs. 8, 9.
1923 G, 111.
1923 H, 163.
Osborn, H. F. 1904 I, 35.
1917 B, 210.
1918 D, 683.
1919 A, 71.
Pompeckj, J. F. 1910 A, 128.
Sauvage, H. E. 1901 B, 9.
Schwartz, H. 1908 A, 326.
1908 B, 100.
Steinmann, G. 1908 A, 239, fig. 143.
Sternberg, C. H. 1899 C, 269.
1905 A, 126.
1909 C, 51.
Tornier, G. 1913 B, 347, fig. 20.
Williston, S. W. 1902 E, 247, 250.
1904 B, 177, text-fig. 7.
1907 A, 484.
1908 H, 163.
1910 E, 537.
1911 B, 46.
1914 A, 151, 166, figs. 69, 72, 73, 76, 77.
1918 A, 79, fig. 3.
1925 A, 71, 103, 151, 180, 193, 199, figs. 57, 80, 123, 147, 158.
1925 B, 272, 273, fig. 184.
Zittel and Broili 1911 A, 217.
1923 A, 261, 264, fig. 366.
Zittel and Eastman 1902 A, 157.

Platecarpus brachycephalus Loomis.

Loomis, F. B. 1915 A, 556, figs. 1-9.
Upper Cretaceous (Pierre); Wyoming.

Platecarpus clidastoides (Merriam).

Hay, O. P. 1902 A, 469 (Lestosaurus).
Upper Cretaceous; Kansas.

Platecarpus coryphæus Cope.

Hay, O. P. 1902 A, 469 (Lestosaurus).
Abel, O. 1922 C, 307, 312, figs. 259, 265.
Camp, C. L. 1923 A, 413.
Drevermann, F. 1914 A, 43, fig. 8.
Huene, F. 1911 B, 49.
1919 A, 183, pl. viii, fig. 2.
Kingsley, J. S. 1905 A, 63, fig. 3.
Lambe, L. M. 1914 H, 399, 401, 402, pl. i.
Merrill, G. P. 1907 A, 73 (Lestosaurus).
Moodie, R. L. 1918 C, 234, figs. 15-19.
1923 B, 169, pls. xxxix, xl, xlviii.
Osburn, R. C. 1906 A, pl. viii, fig. 22.
Pompeckj, J. F. 1910 A, 137.
Seitz, A. L. L. 1907 A, 335.
Steinmann, G. 1907 A, 444, fig. 780.
1909 A, 83, fig. 15.
Sternberg, C. H. 1905 A, 127.
1907 C, 122.
1908 A, 113.
1909 C, 50, 204, fig. 10.
1911 A, 71.
1918 A, 205.
Williston, S. W. 1902 E, 248, pl. xii, fig. 1.
Williston, S. W. 1910 E, 538.
Wiman, C. 1920 A, 10, pls. iii, iv, figs. 7, 8; text-fig. 2.
Woodward, A. S. 1922 C, 5, fig. 2.
Zittel and Broili 1911 A, 216, fig. 355.
1923 A, 260, 263, figs. 364, 371.
Zittel, Eastman, etc. 1902 A, 158, figs. 244, 249, 250.
Upper Cretaceous (Niobrara, Pierre?); Kansas.

Platecarpus crassartus Cope.

Hay, O. P. 1902 A, 470 (Lestosaurus).
Upper Cretaceous (Pierre); Kansas.

Platecarpus curtirostris Cope.

Hay, O. P. 1902 A, 470 (Lestosaurus).
Upper Cretaceous (Niobrara); Kansas.

Platecarpus felix (Marsh).

Hay, O. P. 1902 A, 470 (Lestosaurus).
Williston, S. W. 1902 E, 253 (Syn.? of P. coryphæus).
Upper Cretaceous (Niobrara); Kansas.

Platecarpus glandiferus Cope.

Hay, O. P. 1902 A, 470 (Lestosaurus).
Upper Cretaceous (Niobrara, Pierre?); Kansas.

Platecarpus gracilis (Marsh).

Hay, O. P. 1902 A, 470 (Lestosaurus).
Williston, S. W. 1902 A, 253.
Upper Cretaceous (Niobrara); Kansas.

Platecarpus ictericus Cope.

Hay, O. P. 1902 A, 470 (Lestosaurus).
Camp, C. L. 1923 A, 413.
Osburn, R. C. 1906 A, pl. viii, fig. 28.
Pompeckj, J. F. 1910 A, 137.
Wiman, C. 1920 A, pl. iv, fig. 7.
Upper Cretaceous (Niobrara); Kansas.

Platecarpus latifrons (Marsh).

Hay, O. P. 1902 A, 470 (Lestosaurus).
Upper Cretaceous (Niobrara); Kansas.

Platecarpus? latispinus Cope.

Hay, O. P. 1902 A, 470 (Lestosaurus).
Loomis, F. B. 1915 A, 557 (This genus?).
Upper Cretaceous (Pierre?); Wyoming.

Platecarpus mudgei Cope.

Hay, O. P. 1902 A, 470 (Lestosaurus).
Upper Cretaceous (Niobrara); Kansas.

Platecarpus oxyrhinus Merriam.

Hay, O. P. 1902 A, 470 (Lestosaurus).
Upper Cretaceous (Niobrara); Kansas.

Platecarpus planifrons Cope.

Hay, O. P. 1902 A, 470 (Lestosaurus).
Upper Cretaceous (Niobrara); Kansas.

Platecarpus simus (Marsh).

Hay, O. P. 1902 A, 470 (Lestosaurus).
Frassetto, F. 1915 A, 7, fig. 3.
Koken, E. 1893 B, 431 (Lestosaurus).

Williston, S. W. 1902 E, 253 (Lestosaurus. Syn. of P. ictericus).
Zittel and Broili 1911 A, 215, fig. 353.
1923 A, 263, fig. 369.
Upper Cretaceous (Niobrara); Kansas.

Platecarpus tectulus Cope.

Hay, O. P. 1902 A, 471 (Lestosaurus).
Loomis, F. B. 1915 A, 557.
Upper Cretaceous (Pierre); Kansas, Wyoming?.

Platecarpus tympaniticus Cope.

Hay, O. P. 1902 A, 469.
Upper Cretaceous (Tombigbee sand?); Mississippi.

Platecarpus sp. indet.

Broom, R. 1913 C, 508, figs. 1, 2.
Williston, S. W. 1902 E, 252, pl. xiii. Upper Cretaceous (Niobrara); North Dakota.

HOLCODUS Gibbes. Type *H. acutidens* Gibbes.

Hay, O. P. 1902 A, 469.

Holcodus acutidens Gibbes.

Hay, O. P. 1902 A, 469.
Upper Cretaceous; Alabama, Mississippi?, South Carolina?

ANCYLOCENTRUM Schmidt. Type *Brachysaurus overtoni* Williston.

Schmidt, K. P. 1927 A, 59.
Hay, O. P. 1902 A, 471 (Brachysaurus).
Dames, W. 1899 D, 552 (Brachysaurus).
Matthew, W. D. 1915 J, 153 (Brachiosaurus).
Williston, S. W. 1897 D, 95 (Brachysaurus, preoccupied).
1925 B, 273 (Brachysaurus).
Zittel and Brolli 1911 A, 217 (Brachycaurus).
1923 A, 265 (Brachysaurus).
Zittel, Eastman, etc. 1902 A, 159 (Brachysaurus).

Ancylocentrum overtoni (Williston).

Hay, O. P. 1902 A, 471 (Brachysaurus).
Osburn, R. C. 1906 A, pl. viii, fig. 24 (Brachysaurus).
Rogers, A. F. 1924 A, 545 (Brachysaurus).
Schmidt, K. P. 1927 A, 59 (Ancylocentrum)
Upper Cretaceous (Pierre); Kansas.

HOLOSAURUS Marsh. Type *H. abruptus* Marsh.

Hay, O. P. 1902 A, 471.
Dollo, L. 1889 K, 276, 283, 288, 298.
Williston, S. W. 1902 E, 247, 248.
1908 H, 163.
1910 E, 537 (Platecarpus).
Zittel and Broili 1911 A, 217.
1923 A, 264.
Zittel, Eastman, etc. 1902 A, 158.

Holosaurus abruptus Marsh.

Hay, O. P. 1902 A, 471.
Abel, O. 1912 F, 161, figs. 105, 106 (Platecarpus).
1919 A, 678, fig. 530 (Platecarpus).
1922 C, 311, figs. 263, 264 (Platecarpus).
Capps, S. R. 1907 A, 350, figs. 1-3.
Huene, F. 1911 B, 50 (Platecarpus).
Williston, S. W. 1904 A, 50.
1910 E, 537, fig. 1 (Platecarpus).
1914 A, 151, fig. 69 ("Platecarpus").
Upper Cretaceous (Niobrara); Kansas.

MOSASAURINÆ Williston.

Hay, O. P. 1902 A, 464.
Case, E. C. 1898 C, 720.
Dames, W. 1899 D, 552.
Dollo, L. 1924 A, 198.
Sauvage, H. E. 1901 B, 11.
Zittel, Eastman, etc. 1902 A, 159.

MOSASAURUS Conybeare. Type *M. belgicus* Holland.

Hay, O. P. 1902 A, 464.
Abel, O. 1907 A, 227.
1909 F, 467.
1912 F, 128, 159, 427, 461, 686, fig. 70.
1914 B, 20, fig. 3.
1914 C, 371, fig. 8.
1919 A, 672, 675.
1922 C, 309, 315, fig. 261.
Boule, M. 1891 A, 10.
Boulenger, G. A. 1891 D, 114.
Bronn, H. G. 1848 A, 745.
1849 A, 693.
Broom, R. 1921 A, 155, fig. 26.
Camp, C. L. 1923 A, 322.
Camper, A. 1812 A, 215, pls. i-iii ("sauroïdes de Maestricht").
Cope, E. D. 1880 U, 147.
Cuvier, G. 1825 A, v, pt. 2, 310 ("saurien").
Dames, W. 1883 C, 270.
1899 D, 552, 553.
Dollo, L. 1889 K, 276, 282, 288, 294.
1904 A, 212.
1905 A, 129.
1913 B, 615.
1919 A, 16, fig.
1924 A, 179, 184.
Fraas, E. 1905 B, 373.
Gadow, H. 1901 B, 489.

Gervais, P. 1852 A, 261.
1859 A, 461.
Giebel, C. G. 1855 A, 92.
Heilprin, A. 1887 A, 169.
Hoernes, R. 1886 A, 609.
Hoffmann, C. K. 1890 B, 1311, 1320.
Holland, W. J. 1908 C, 162, figs. 1-4.
Koken, E. 1893 B, 430.
1901 B, 221.
Lee, Stone, Gale 1915 A, 20.
Lucas, F. A. 1902 B, 201.
Lydekker, R. 1912 C, 102, 106.
1914 A, 643.
Mantell, G. A. 1844 A, 754.
Newberry, J. S. 1878 C, 648.
Osborn, H. F. 1917 B, 209.
Owen, R. 1845 B, 258, pl. lxviii, figs. 1, 2.
1868 A, 894.
Perrier, E. 1920 A, 326.
Pompeckj, J. F. 1910 A, 128.
Pütter, A. 1923 A, 221.
Reynolds, S. H. 1897 A, 204.
Sauvage, H. E. 1901 B, 9, 10.
Schlesinger, G. 1909 A, (141, 142).
Seitz, A. L. L. 1907 A, 330.
Serres, M. 1852 A, 114.
Sternberg, C. H. 1917 A, 164 ("mosasaur").
Tornier, G. 1913 B, 346, figs. 17, 19.
Williston, S. W. 1902 F, 263.
1904 A, 43.
1906 A, 2.
1909 A, 398 ("mosasaurs"); 399.
1925 B, 272.
Woodward, A. S. 1922 C, 4, fig. 1.
Zittel and Broili 1911 A, 215.
1923 A, 261, 264, figs. 365, 370, 372.
Zittel, Eastman, etc. 1902 A, 159.

Mosasaurus brumbyi (Gibbes).

Hay, O. P. 1902 A, 465.
Upper Cretaceous; Alabama.

Mosasaurus carolinensis Gibbes.

Hay, O. P. 1902 A, 465.
Upper Cretaceous (Black Creek?); South Carolina.

Mosasaurus copeanus Marsh.

Hay, O. P. 1902 A, 465.
Upper Cretaceous (Navesink?); New Jersey.

Mosasaurus couperi Gibbes.

Hay, O. P. 1902 A, 465.
Upper Cretaceous (Tuscaloosa, Eutaw, or Ripley); Georgia.

Mosasaurus crassidens Marsh.

Hay, O. P. 1902 A, 465.
Upper Cretaceous; North Carolina.

Mosasaurus dekayi Bronn.

Hay, O. P. 1902 A, 465.
Ballou, W. H. 1897 A, 23.
Emmons, E. 1858 B, 217, figs. 36-*a*, 37 (Mososaurus maximiliani).
Upper Cretaceous (Navesink); New Jersey; North Carolina?, South Carolina?.

Mosasaurus depressus Cope.

Hay, O. P. 1902 A, 465.
Upper Cretaceous (Navesink); New Jersey.

Mosasaurus fulciatus Cope.

Hay, O. P. 1902 A, 465.
Upper Cretaceous (Navesink?); New Jersey.

Mosasaurus horridus Williston.

Hay, O. P. 1902 A, 466.
Beard, J. C. 1901 B, 267, fig.
Osburn, R. C. 1906 A, pl. viii, fig. 27.
Pompeckj, J. F. 1910 A, 137.
Upper Cretaceous (Niobrara); Kansas.

Mosasaurus maximus Cope.

Hay, O. P. 1902 A, 466.
Sauvage, H. E. 1901 G, 78.
Upper Cretaceous (Navesink?); New Jersey.

Mosasaurus miersii Marsh.

Hay, O. P. 1902 A, 466.
Upper Cretaceous (Navesink?); New Jersey.

Mosasaurus minor Gibbes.

Hay, O. P. 1902 A, 466.
Upper Cretaceous; Alabama.

Mosasaurus missouriensis (Harlan).

Hay, O. P. 1902 A, 466.
Dames, W. 1883 C, 271 (M. maximiliani).
Hayden, F. V. 1857, Proc. Acad. Nat. Sci. Phila., 117, 119.
1871 A, 87.
Williston, S. W. 1914 A, 151 (Ichthyosaurus).
Upper Cretaceous (Pierre); North Dakota.

Mosasaurus oarthrus Cope.

Hay, O. P. 1902 A, 466.
Upper Cretaceous (Navesink?); New Jersey.

Mosasaurus princeps Marsh.

Hay, O. P. 1902 A, 466.
Upper Cretaceous (Navesink?); New Jersey.

Mosasaurus? sp. indet.

Hay, O. P. 1902 A, 466.
Gilmore, C. W. 1912 D, 2. Upper Cretaceous (Fox Hills?); Montana.
Leonard, A. G. 1912 A, 2. Upper Cretaceous (Fox Hills); Montana.
Merrill, G. P. 1907 A, 74. Upper Cretaceous; Alabama.

CLIDASTES Cope. Type *C. iguanavus* Cope.

Hay, O. P. 1902 A, 466.
Abel, O. 1912 F, 122, 160, fig. 65.
1919 A, 675.
1922 C, 308.
Boulenger, G. A. 1891 D, 118, fig. 6 (Edestosaurus).
Camp, C. L. 1923 A, 322.
Case, E. C. 1898 C, 720.

Dames, W. 1899 D, 553.
Dollo, L. 1889 K, 276, 281, 288, 297 (Clidastes); 282, 288, 297 (Edestosaurus).
1909 A, 106.
1924 A, 206.
Gadow, H. 1901 B, 490.
Gaudry, A. 1896 A, 95.
Heilmann, G. 1926 A, 55.
Heilprin, A. 1887 A, 169.
Hoernes, R. 1886 A, 609.
Hoffmann, C. K. 1890 B, 1321 (Edestosaurus); 1322 (Clidastes).
Kingsley, J. S. 1925 A, 157, fig. 167.
Lull, R. S. 1917 B, 332, fig. 69.
1919 A, 223.
Moodie, R. L. 1923 B, 184, fig. 16.
1926 A, 68, 86, 94, pl. xiii; text-fig. 7.
Nopcsa, F. 1903 C, 38, pl. v, fig. 4; pl. vi, fig. 2.
1923 G, 111.
1923 H, 75, 163.
Osborn, H. F. 1917 B, 210.
1918 D, 683.
1919 A, 71.
Perrier, E. 1920 A, 327.
Pompeckj, J. F. 1910 A, 128.
Steinmann, G. 1907 A, 443, fig. 777.
1908 A, 239, figs. 142, 144.
1909 A, 84, fig. 16.
Sternberg, C. H. 1899 C, 259.
1905 A, 126.
1917 A, 21.
Tornier, G. 1913 B, 346, figs. 17, 18, 24.
Williston, S. W. 1893 D, 110.
1907 A, 484.
1908 H, 163.
1911 B, 45.
1914 A, 147, 166, figs. 68, 71, 72, 74.
1925 A, 67, 71, 112, 180, 193, 199, figs. 54, 58, 86, 146, 158.
1925 B, 272.
Wiman, C. 1920 A, 12.
Zittel and Broili 1911 A, 216.
1923 A, 264.
Zittel, Eastman, etc. 1902 A, 159.

Clidastes cinerearum Cope.

Hay, O. P. 1902 A, 466.
Williston, S. W. 1902 E, 250 (C. cinerianus).
Upper Cretaceous (Niobrara); Kansas.

Clidastes conodon Cope.

Hay, O. P. 1902 A, 467.
Upper Cretaceous (Tinton sand?); New Jersey.

Clidastes dispar (Marsh).

Hay, O. P. 1902 A, 467.
Anthony, R. 1913 A, 255, fig. 6 (Edestosaurus).
Frassetto, F. 1915 A, 7, fig. 2.
Juhn, M. 1923 A, 71.
Sauvage, H. E. 1902 B, 12 (Tylosaurus).
Williston, S. W. 1902 E, 250 (Clidastes); 253 (Edestosaurus).
Upper Cretaceous (Niobrara); Kansas.

Clidastes iguanavus Cope.

Hay, O. P. 1902 A, 467.
Ruschenberger and Tryon 1879 A, 93.
Upper Cretaceous (Matawan or Monmouth?); New Jersey.

Clidastes intermedius Leidy.

Hay, O. P. 1902 A, 467.
Upper Cretaceous (Selma?); Alabama.

Clidastes liodontus Merriam.

Hay, O. P. 1902 A, 467.
Williston, S. W. 1902 E, 250.
Upper Cretaceous (Niobrara?); Kansas.

Clidastes propython Cope.

Hay, O. P. 1902 A, 467.
Cope, E. D. 1891 N, 50, fig. 26.
Fuchs, H. 1908 C, 213.
Zittel, Eastman, etc. 1902 A, 159, figs. 243, 251.
Upper Cretaceous (Selma?); Alabama.

Clidastes pumilis Marsh.

Hay, O. P. 1902 A, 467.
Abel, O. 1912 F, 162, fig. 107.
1919 A, 676, fig. 529.
1922 C, 310, fig. 262.
Rogers, A. F. 1924 A, 545 (C. pumilus).
Sternberg, C. H. 1881 B, 3.
Upper Cretaceous (Niobrara); Kansas.

Clidastes stenops Cope.

Hay, O. P. 1902 A, 467.
Fejérváry, G. J. 1918 A, 437, fig. 26.
Williston, S. W. 1902 E, 248, pl. xii, fig. 2.
Zittel and Broili 1911 A, 214, fig. 351.
1923 A, 262, fig. 367.
Upper Cretaceous (Niobrara); Kansas.

Clidastes sternbergii Wiman.

Wiman, C. 1920 A, 12, pl. iii; pl. iv, fig. 5; text-figs. 4-9.
Abel, O. 1922 C, 315, fig. 270.
Upper Cretaceous (Niobrara); Kansas.

Clidastes tortor Cope.

Hay, O. P. 1902 A, 467 (C. tortor, C. rex).
Holland, W. J. 1908 C, 162, 166, fig. 5.
Pompeckj, J. F. 1910 A, 137.
Seitz, A. L. L. 1907 A, 337 (Platecarpus).
Sternberg, C. H. 1909 C, 44, figs. 6, 7.
Williston, S. W. 1902 E, 250, 253 (C. rex a syn. of C. tortor).
1903 A, 30, text-fig. 4.
Upper Cretaceous (Niobrara); Kansas.

Clidastes velox (Marsh).

Hay, O. P. 1902 A, 468.
Abel, O. 1908 E, 406.
Camp, C. L. 1923 A, 413.
Gaudry, A. 1896 A, 96, figs. 74, 75.
Merriam, J. C. 1908 C, 44, fig. 51.
Merrill, G. P. 1907 A, 66 (C. affinis).
Osburn, R. C. 1906 A, 453, pl. viii, fig. 26.
Pompeckj, J. F. 1910 A, 137.
Rogers, A. F. 1924 A, 545.
Seitz, A. L. L. 1907 A, 339.

Sternberg, C. H. 1909 C, 51, fig. 11.
Williston, S. W. 1902 E, 249, 250 (Clidastes); 253 (Edestosaurus).
Wiman, C. 1920 A, pl. iv, fig. 8.
Zittel and Broili 1911 A, 215, fig. 352.
1923 A, 260, 262, figs. 363, 368.
Upper Cretaceous (Niobrara); Kansas.

Clidastes westii Williston and Case.

Hay, O. P. 1902 A, 468.
Camp, C. L. 1923 A, 413, fig. 22.
Pompeckj, J. F. 1910 A, 137.
Sternberg, C. H. 1909 C, 135.
Upper Cretaceous (Pierre); Kansas.

Clidastes wymani Marsh.

Hay, O. P. 1902 A, 468.
Williston, S. W. 1902 E, 250 (Edestosaurus. Syn. of C. velox).
Upper Cretaceous (Niobrara); Kansas.

Clidastes sp. indet.

Hill, R. T. 1901 A, 328. Upper Cretaceous (Eagle Ford); Texas.
Sternberg, C. H. 1907 C, 122. Upper Cretaceous (Niobrara); Kansas.
1915 A, 132. Upper Cretaceous (Bear Paw); Montana.

NECTOPORTHEUS Cope. Type *N. validus* Cope.

Cope, E. D. 1868 H, 181.
Hay, O. P. 1902 A, 467 (Clidastes?).

Nectoportheus validus Cope.

Hay, O. P. 1902 A, 467 (Clidastes?).
Upper Cretaceous (Navesink?); New Jersey.

SIRONECTES Cope. Type *S. anguliferus* Cope.

Hay, O. P. 1902 A, 468.
Dames, W. 1899 D, 553.
Dollo, L. 1889 K, 276, 283, 288, 298.
Williston, S. W. 1925 B, 273.

Sironectes anguliferus Cope.

Hay, O. P. 1902 A, 468.
Upper Cretaceous (Niobrara); Kansas.

BAPTOSAURUS Marsh. Type *Halisaurus platyspondylus* Marsh.

Hay, O. P. 1902 A, 468.
Dames, W. 1899 D, 553 (Raptosaurus).
Dollo, L. 1889 K, 275, 283, 288, 297.
1924 A, 211.
Williston, S. W. 1925 B, 273.

Baptosaurus fraternus Marsh.

Hay, O. P. 1902 A, 468.
Upper Cretaceous (Navesink); New Jersey.

Baptosaurus onchognathus Merriam.

Hay, O. P. 1902 A, 468.
Upper Cretaceous (Niobrara); Kansas.

Baptosaurus platyspondylus Marsh.

Hay, O. P. 1902 A, 468.
Upper Cretaceous (Navesink); New Jersey.

DIPLOTOMODON Leidy. Type *D. horrificus* Leidy.

Hay, O. P. 1902 A, 473.
Huene, F. 1909 B, 16.
Jordan, D. S. 1923 A, 98.

A genus regarded by Woodward as belonging among the fishes.

Diplotomodon horrificus Leidy.

Hay, O. P. 1902 A, 473.
Woodward, A. S. 1901 A, 612.
Cretaceous (Mullica Hill); New Jersey.

ELLIPTONODON Emmons. Type *E. compressus* Emmons.

Hay, O. P. 1902 A, 473.

Elliptonodon compressus Emmons.

Hay, O. P. 1902 A, 473.
Gilmore, C. W. 1926 L, 191.
Upper Cretaceous (Peedee); North Carolina.

POLYGONODON Leidy. Type *P. vetus* Leidy.

Hay, O. P. 1902 A, 473.

This genus may not belong to this order. It may belong among the fishes.

Polygonodon rectus Emmons.

Hay, O. P. 1902 A, 473.
Upper Cretaceous (Black Creek); North Carolina.

Polygonodon vetus Leidy.

Hay, O. P. 1902 A, 473.
Upper Cretaceous (Greensand); New Jersey.

GLOBIDENTIDÆ, new form.

Dollo, L. 1924 A, 188, 199 (Globidensidæ).
Gilmore, C. W. 1927 H, 452 (Globidensidæ).
Williston, S. W. 1925 B, 273 (Globidensidæ).

GLOBIDENS Gilmore. Type *G. alabamaënsis* Gilmore.

Gilmore, C. W. 1912 A, 479.
Abel, O. 1919 A, 672, fig. 527.
1922 C, 309, 312, fig. 266.
1928 A, 369.
Camp, C. L. 1923 A, 323.
Dollo, L. 1913 B, 610.
1919 A, 18.
1924 A, 168.
Huene, F. 1912 G, 137 (Globideus).
Lydekker, R. 1914 A, 642.
Moodie, R. L. 1913 A, 188.
Nopcsa, F. 1923 H, 76.
Williston, S. W. 1925 B, 259, 273.
Zittel and Broili 1923 A, 264.

Globidens alabamaënsis Gilmore.

Gilmore, C. W. 1912 A, 479, pls. xxxix, xl; text-figs. 1-3.
Dollo, L. 1913 B, 614, pl. xxv, fig. 4.
1924 A, 168, 170, 176, 199, pl. v, figs. 1, 5.
Gilmore, C. W. 1921 B, 280.
1927 H, 452.
Williston, S. W. 1914 A, 167, fig. 80 (G. alabamensis).
Upper Cretaceous (Selma?); Alabama.

MOSASAURIAN OF UNDETERMINED GENUS AND SPECIES

Gilmore, C. W. 1926 L, 191, pl. lxii, figs. 5, 8; pls. lxxi, lxxii. Upper Cretaceous (Ripley); Tennessee.

Order SERPENTES Linnæus.

Unless otherwise indicated the authors quoted employ for this order the name Ophidia.

Linnæus, C. 1758 A, 194, 214 (Serpentes).
Hay, O. P. 1902 A, 478 (Serpentes).
Abel, O. 1909 F, 467 ("schlangen").
1912 F, 415.
1920 A, 400.
Agassiz, L. 1844 D, 137 ("ophidians").
Ahlborn, F. 1896 B, 8 ("schlangen").
Allis, E. P. 1919 D, 213.
Anthony, R. 1912 A ("ophidiens").
Arldt, T. 1833 B, 1185.
1907 C, 677 ("schlangen").
1907 D, 669.
Arthaber, G. 1910 A, 554 ("schlangen").
Baird and Girard 1853 A, 1-172 ("serpents").
Baraldi, G. 1877 A, 8 ("serpents").
Bardeleben, K. 1901 A ("schlangen").
1896 A, 114 ("schlangen").
Beddard, F. E. 1904 C, 233.
Beer, G. R. 1926 A, 312, 330.
Beyer, H. 1907 A, 281 ("ophidier").
Blainville, H. M. D. 1835 A, 260.
Blanchard, E. 1861 A, 380 ("serpents").
Bluntschli, H. 1912 B, 383 ("schlangen").
Boas, J. E. V. 1914 B, 560 ("schlangen").
Bonaparte, C. L. 1832 A, 316 (Serpentes).
1833 B, 1185 (Ophidii).
Boulenger, G. A. 1891 D, 117.
1893 B, 205.
1917 A, 92 ("serpents").
Brandt, J. F. 1865 A, 19 ("schlangen").
Brauns, D. 1890 A, 147, 149, 202 ("schlangen," "ophidier").
Bronn, H. G. 1849 A, 780, seq. (Ophidii).
Broom, R. 1896 A, 480.
1901 A, 188.
1902 D, 554.
1903 I, 546.
1908 E, 114 ("snakes").
1911 A, 922 ("snakes").
1917 A, 977.
1924 B, 64, fig. 13.
Brown, A. E. 1904 A, 469.
Brown, B. 1908 A, 207 (Serpentes).
Camp, C. L. 1923 A, 301, 333, 418 (Serpentes).
Carlsson, A. 1886 A, 1-38, pls. i-iii ("schlangen").
Cartier, O. 1874 A, 192 ("schlangen").
Carus, V. 1875 A, 414.
Carus and Engelmann 1861 A, 1081-1086, 1562, 1674, 1781.
Case, E. C. 1898 C, 731.
Chaine, J. 1918 A, 734 ("serpents").
Chapman, H. C. 1894 A, 42 ("snakes").
Cleland, J. 1863 B, 309 ("serpents").
Cope, E. D. 1891 N, 45.
Cuvier, G. 1803 A, 168 ("ophidiens").
1805 A ("ophidiens").
Dana, J. D. 1863 C, 343 ("snakes").
Dendy, A. 1907 A, 292.
Döderlein, L. 1900 A, 335.
1902 A, 433 ("schlangen").
Dollo, L. 1883 G, 590.
1893 D, 15 ("ophidiens").
1903 B, 138 ("ophidiens").
1904 B, 218.
1923 A, 80 ("ophidiens").
1924 A, 211 ("ophidiens").
Dombrowski, B. A. 1925 A, 76 ("schlangen").
Duerden, J. E. 1924 A, 563 ("snakes").
Duncan, P. M. 1878 A, 752.
Ebner, V. 1889 A, 196 ("schlangen").
Edgeworth, F. H. 1907 A, 517.
Eichwald, E. 1832 A, 869 ("schlangen").
Eimer, G. H. T. 1901 A, 261 ("schlangen").
Fejérváry, G. J. 1918 A, 439.
Fleischmann, A. 1910 A, 685, 698.
Fraas, E. 1905 B, 372.
Fuchs, H. 1908 C, 191.
1909 B, 131, 149.
1911 B, 394 ("schlangen").
1911 C, 39 ("schlangen").
1913 A, 62 ("schlangen").
1914 A, 31 ("schlangen").
Fürbringer, M. 1904 A ("ophidier").
Gadow, H. 1901 A, 410 ("snakes").
1901 B, 581.

Gadow, H. 1902 B, 353.
1905 A, 222.
1912 B, 216 ("snakes").
1913 A, 102 ("snakes").
Gaupp, E. 1891 B, 108 ("ophidier").
1895 A, 57 ("schlangen").
1899 A, 1092.
1902 A, 215 ("schlangen").
1905 D, 1023 ("ophidier").
1906 A, 43 ("schlangen").
1906 B, 791 ("schlangen").
1908 B, 518 ("schlangen").
1908 C ("schlangen").
1910 A, 540 ("schlangen").
1911 A, 433 ("schlangen").
1911 B, 110.
1911 C, 444 ("schlangen"); 451 (Ophidia).
1913 A, 56.
Gervais, P. 1852 A, 255 ("ophidiens").
1859 A, 452 ("ophidiens").
Giebel, C. G. 1855 A, 96.
Goodsir, J. 1857 A (Serpentes).
Gray, J. E. 1825 A, 204 (Ophidii).
1837 D, 135 ("ophidians").
Greene, J. R. 1861 A, 225.
Gregory and Adams 1915 A, 763 ("snakes").
Gregory and Noble 1924 A, 437 ("snakes").
Haeckel, E. 1868 A, 453, 455.
1873 A, 512, 531.
Hasse and Schwarck 1870 A, 51 ("schlangen").
Hatschek, B. 1889 B, 118 ("schlangen").
Hayek, H. 1924 A, 147 ("schlangen").
Heilmann, G. 1914 A, 75.
1926 A, 94.
Heilprin, A. 1887 A, 320.
Henshaw, H. W. 1912 A, 318 ("snakes").
Hoernes, R. 1886 A, 610.
Holland, H. 1864 A, 13 ("ophidiens").
Hommes, J. H. 1924 A, 36 (Ophidii).
Howes and Swinnerton 1901 A, 55.
Huene, F. 1914 G, pl. vii.
Huxley, T. H. 1859 D, 401, 447.
1863 F, 477, 529, figs. 45, 48.
1876 F, 173.
Jaekel, O. 1905 B, 81.
1910 C, 336 (Ophidii).
1911 A, 155.
Janensch, W. 1906 A, 26 ("schlangen").
Kerbert, C. 1876 A, 206 ("ophidier").
Kesteven, H. L. 1918 A, 449 ("ophidians").
Kingsley, J. S. 1902 B, 328.
1912 B, 94.
1925 A, 43, 44, 158.
Klaauw, C. J. 1924 B, 595.
Klein, E. E. 1868 A ("ophidier").
Köstlin, O. 1844 A ("schlangen").
Koken, E. 1898 A, 141.
Laaser, P. 1903 A, 575 ("schlangen").
Lavocat, A. 1884 A, 1126 ("serpents").
1885 A, 29, 36 ("ophidiens").
1889 A, 44 ("ophidiens").
Lebedinsky, N. G. 1913 A, 767 ("ophidier").
Leunis and Ludwig 1883 A, 572.
Leydig, F. 1873 A, 753 ("ophidier").
1873 B, 1, pl. i ("schlangen").
Lobley, J. L. 1908 A, 198.
Lydekker, R. 1912 C, 3, 4, 42, 48, 111, 144.
Mantell, G. A. 1844 A, 780 ("serpents").

Matthew, W. D. 1921 D, 214.
Mayer, C. 1824 A, 819 ("ophidier").
Meckel, J. F. 1825 A ("ophidier").
Menmuir, W. H. 1902 A, 274 ("serpents").
Mivart, St. G. 1871 B, 380 ("serpents").
Müller, J. 1832 A, 507 (Ophidii).
1841 C, 329 ("schlangen").
Nitzsch, C. L. 1822 A, 83 ("schlangen").
Nopcsa, F. 1922 A, 115 ("ophidier").
1923 G, 142 ("schlangen").
1923 H, 1, 2, 4, 72, 124.
1925 A, 5 ("schlangen").
1925 C, 164 ("schlangen").
1928 A, 178.
Oken, L. 1819 A, 1529 ("schlangen").
Osborn, H. F. 1903 D, 456.
1904 H, 114.
1905 C, 295.
1905 N, 239 ("snakes").
1917 B, 193, 201, 231.
1925 F, 962.
Owen, R. 1842 F, 77.
1845 B, 219.
1848 B ("ophidians").
1868 A, 896.
Palacký, J. 1894 A, 129 ("schlangen").
1898 A, 88 ("ophidiens").
1902 B, 141, 147 ("schlangen").
Parker, W. K. 1864 B, 56.
1878 C, 214 ("snake").
1879 C, 342 ("snake").
1888 C, 397 ("serpents").
1888 D, 470.
Parker and Haswell 1897 A, 312.
Perna, G. 1906 A, 135 ("ophidier").
Peters, W. 1867 A, 725 ("schlangen").
1868 B, 388 ("snakes").
1869 A, 6 ("schlangen").
Peyer, B. 1912 A, 563 ("schlangen").
Phisalix, M. 1912 A, 161 ("serpents").
1914 A, 1 ("serpents").
Pinkus, F. 1904 A, 156.
Reichert, K. B. 1849 A, 468 ("schlangen").
Reynolds, S. H. 1897 A, 202, 273, 283, 548.
Röse, C. 1892 G, 133 ("schlangen").
Sarkar, S. C. 1923 A, 296.
Schöne, G. 1902 A, 27 ("ophidier"); 8 ("schlangen").
Scott, W. B. 1917 A, 182 ("snakes").
Seeley, H. G. 1865 B, 147.
1866 B, 352.
1872 B, 27 ("ophidians").
1876 C, 174, 194 ("serpents").
1882 A, 366.
Serres, M. 1852 A, 144 ("ophidiens").
Seydel, O. 1899 A ("ophidier").
Sixta, V. 1900 B, 337 ("schlangen").
Stannius, H. 1856 A, 5 seq.
Stehli, G. 1910 A, 763 ("ophiden").
Steinmann, G. 1907 A, 437.
1908 A, 213 ("schlangen").
1912 B, 731 (Serpentes).
Stejneger, L. 1904 A, 925 (Serpentes).
1907 A, 254.
Stejneger and Barbour 1917 A, 72 (Serpentes).
Strecker, C. 1887 A, 307 ("ophidier").
Stromer, E. 1912 A, 76.
Taschenberg, O. 1894 A, 3580.

Terra, P. 1911 A, 142, 228.
Thäter, K. 1910 A, 471 ("schlangen").
Thyng, F. W. 1906 A, 58.
Tomes, C. S. 1875 B, 95.
1876 B, 377.
Tornier, G. 1913 A, 334.
1913 B, 344, 374.
Versluys, J. 1910 B, 178 ("schlangen").
1912 A, 491 ("schlangen").
1912 B, 638, 687.
Virchow, H. 1914 A, 79 ("schlangen").
1914 C, 132 ("schlangen").
Vitali, G. 1909 A, 212 ("ofidi").
Wagner, R. 1843 A, 146.
Wallace, A. R. 1876 A, II, 372, 386, 387.
Wallisch, W. 1922 A, 537, figs. 6-8 ("schlangen").
Werner, F. 1904 A, 337 ("schlangen").
West, G. S. 1895 A, 812 ("snakes").
1898 A, 520.
Williston, S. W. 1902 G, 315 ("snakes").
1904 A, 47, 48.
1914 A, 17, 45, 139, 168 (Serpentes, Ophidia).
1925 A, *passim*.
1925 B, 212, 275.
Woodward, A. S. 1898 B, 195.
Woodward, H. 1904 B, 145 ("snakes").
Ziegler, H. E. 1901 A, 231 ("schlangen").
Zittel and Broili 1911 A, 218.
1923 A, 266.
Zittel, Eastman, etc. 1902 A, 163.

PALÆOPHIDÆ Lydekker.

Hay, O. P. 1902 A, 478.
Abel, O. 1919 A, 682.
Janensch, W. 1906 B, 341, 345.
Nopcsa, F. 1923 G, 142 ("paläophiden").
1923 H, 124 (Palæophinæ).
1925 A, 6, 22.
1928 A, 178 (Palæophinæ).

PALÆOPHIS Owen. Type *P. toliapicus* Owen.

Hay, O. P. 1902 A, 479.
Arldt, T. 1907 D, 274.
Cope, E. D. 1891 N, 51.
Hoffmann, C. K. 1890 C, 1812.
Janensch, W. 1906 B, 332, 339, 341.
Leriche, M. 1926 A. 13, pls. i, ii.
Miller, H. 1857 A, 110, fig. 66.
Nopcsa, F. 1923 G, 122, 127.
1925 A, 22.
1925 C, 164.
1928 A, 178.
Owen, R. 1857 G, 196, pl. iv, fig. 1.
Seeley, H. 1865 B, 147.
Stefano, G. 1905 A, 61 (Dinophis).
Wieland, G. R. 1925 B, 559 (Paleophus).
Williston, S. W. 1925 B, 276 (Paleophis).
Zittel and Broili 1911 A, 220 (Titanophis).
1923 A, 268.

Palæophis grandis (Marsh).

Hay, O. P. 1902 A, 479.
Hoffmann, C. K. 1890 C, 1813.
Janensch, W. 1906 B, 337 (Dinophis); 343 (Palæophis).
Eocene (Shark River); New Jersey.

Palæophis halidanus Cope.

Hay, O. P. 1902 A, 479.
Cook and Stephenson 1928 A, 143.
Cope, E. D. 1891 N, 52, fig. 28*b*.
Hoffmann, C. K. 1890 C, 1812.
Janensch, W. 1906 B, 337, 343.
Eocene (Shark River); New Jersey.

Palæophis littoralis Cope.

Hay, O. P. 1902 A, 479.
Cope, E. D. 1891 N, 52, fig. 28*a*.
Janensch, W. 1906 B, 337, 339, 343.
Eocene (Shark River); New Jersey.

PTEROSPHENUS Lucas. Type *P. schucherti* Lucas.

Hay, O. P. 1902 A, 479.
Abel, O. 1919 A, 683, fig. 534.
Andrews, C. W. 1906 A, xxv, 309.
1907 C, 305.
Janensch, W. 1906 B, 307, 339.
Nopcsa, F. 1923 G, 122, 127.
1923 H, 78, pl. ii, fig. 6.
1925 A, 22.
1928 A, 178.
Osborn, H. F. 1907 K, 828.
Scharff, R. F. 1911 A, 278.
Stromer, E. 1906 A, 208.
1908 B, 148.
Williston, S. W. 1925 B, 276.
Zittel and Broili 1911 A, 220.
1923 A, 268.

Pterosphenus schucherti Lucas.

Hay, O. P. 1902 A, 479.
Andrews, C. W. 1906 A, xxv.
Cook and Stephenson 1928 A, 143.
Janensch, W. 1906 B, 330, pl. xxvi, fig. 5.
Merrill, G. P. 1907 A, 76.
Sauvage, H. E. 1899 C, 150.
Eocene (Jackson); Alabama.

BOIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 67.
Hay, O. P. 1902 A, 479.
Abel, O. 1912 F, 415.
Andrews, C. W. 1906 A, 306.
Arldt, T. 1907 C, 677 (Boinæ).
1907 D, 641 (Boinæ).
Beddard, F. E. 1904 C, 233.
1905 A, 630.
Beyer, H. 1907 A, 283, fig. 6 (Python).
Blainville, H. M. D. 1835 A, 263 ("boas").
Bonaparte, C. L. 1832 A, 316 (Boina).
Carlsson, A. 1886 A, 4 (Boa).

Carus, V. 1875 A, 422 (Boa).
Cope, E. D. 1891 N, 51.
Cuvier, G. 1805 A ("boas").
Gadow, H. 1901 B, 596.
1905 A, 222.
Gray, J. E. 1837 D, 135.
Hase, A. 1913 A, 150, fig. 75.
Leunis and Ludwig 1883 A, 585.
Lydekker, R. 1906 A, 473, fig. 2.
1912 C, 42, 111, 144 (Pythonidæ).
Mayer, C. 1824 C, 823, pls. lxvi, lxvii (Boa).
Meckel, J. F. 1825 A (Boa).
Nopcsa, F. 1923 G, 124, 148 ("boiden")
1923 H, 113 ("boiden").
1928 A, 178 (Pythoninæ).
Owen, R. 1845 B, 221 ("boas").
1857 G, 196 (Boa).
Palacký, J. 1894 A, 131 ("boiden").
1898 A, 104 ("boides").
1902 B, 147 ("boiden").
Phisalix, M. 1912 A, 177, fig. 15.
1914 A, 86.
Scharff, R. F. 1911 A, 203.
Wieland, G. R. 1925 B, 558, 559 ("boids").
Williston, S. W. 1925 B, 276.

BOAVUS Marsh. Type *B. occidentalis* Marsh.

Hay, O. P. 1902 A, 479.
Nopcsa, F. 1928 A, 178.
Wieland, G. R. 1925 B, 559.
Williston, S. W. 1925 B, 276.

Boavus agilis Marsh.

Hay, O. P. 1902 A, 479.
Middle Eocene (Bridger); Wyoming.

Boavus brevis Marsh.

Hay, O. P. 1902 A, 479.
Middle Eocene (Bridger); Wyoming.

Boavus occidentalis Marsh.

Hay, O. P. 1902 A, 479.
Middle Eocene (Bridger); Wyoming.

LITHOPHIS Marsh. Type *L. sargenti* Marsh.

Hay, O. P. 1902 A, 479.
Nopcsa, F. 1928 A, 178.
Stefano, G. 1905 A, 61.

Lithophis sargenti Marsh.

Hay, O. P. 1902 A, 479.
Middle Eocene (Bridger); Wyoming.

LESTOPHIS Marsh. Type *L. crassus* Marsh.

Hay, O. P. 1902 A, 480.
Heilprin, A. 1887 A, 327 (Limnophis).
Schmidt, K. P. 1927 A, 58 (Paleoboa; type *Limnophis crassus* Marsh).
Wallace, A. R. 1876 A, II, 376 (Limnophis).
Williston, S. W. 1925 B, 276 (Lestophis, Limnophis).

Lestophis crassus Marsh.

Hay, O. P. 1902 A, 480.
Middle Eocene (Bridger); Wyoming.

APHELOPHIS Cope. Type *A. talpivorus* Cope.

Hay, O. P. 1902 A, 480.
Hoffman, C. K. 1890 C, 1813.
Seeley, H. G. 1886 A, 513.
Williston, S. W. 1925 B, 276.

Aphelophis talpivorus Cope.

Hay, O. P. 1902 A, 480.
Oligocene (White River); Colorado.

CALAMAGRAS Cope. Type *C. murivorus* Cope.

Hay, O. P. 1902 A, 480.
Nopcsa, F. 1928 A, 178.
Williston, S. W. 1925 B, 276.

Calamagras murivorus Cope.

Hay, O. P. 1902 A, 480.
Oligocene (White River); Colorado.

OGMOPHIS Cope. Type *O. angulatus* Cope.

Hay, O. P. 1902 A, 480.
Nopcsa, F. 1928 A, 178.
Williston, S. W. 1925 B, 276.

Ogmophis angulatus Cope.

Hay, O. P. 1902 A, 480.
Lambe, L. M. 1908 A, 21.
Oligocene (White River); Colorado.

Ogmophis arenarum Douglass.

Douglass, E. 1903 A, 153, 171.
Lambe, L. M. 1908 A, 21.
Miocene (Flint Creek); Montana.

Ogmophis compactus Lambe.

Lambe, L. M. 1908 A, 9, 20, pl. I, figs. 26-30.
Oligocene (Cypress Hills); Saskatchewan.

Ogmophis oregonensis Cope.

Hay, O. P. 1902 A, 480.
Merriam and Sinclair 1907 A, 187.
Upper Oligocene (John Day); Oregon.

COLUBRIDÆ Gray.

Gray, J. E. 1825 A, 207.
Hay, O. P. 1902 A, 480.
Arldt, T. 1907 C, 677.
1907 D, 647.
1912 A, 712, 756 (Colubrinæ).
Blainville, H. M. D. 1835 A, 265 ("couleuvres").
Bonaparte, C. L. 1831 A, 69.
1832 A, 317 (Colubrina).
1833 B, 1185.
Brown, A. E. 1904 A, 469.
Carus, V. 1875 A, 427.
Cope, E. D. 1900 A, 697, 731 (Colubridæ); 697, 732, 778 (Colubrinæ); 698, 733 (Xenodontinæ); 698, 732, 956 (Natricinæ); 732, 733 (Dromicinæ).
Dunn, E. R. 1924 B, 3 (Colubrinæ).
Gadow, H. 1901 B, 606 (Colubridæ); 607 (Colubrinæ).
1905 A, 223.
Hay, O. P. 1923 A, 312.
Hoffmann, C. K. 1890 C, 1865.
Leunis and Ludwig 1883 A, 589.
Lobley, J. L. 1908 A, 202, 208.
Lydekker, R. 1912 C, 43, 106, 144.
Nopcsa, F. 1923 G, 124, 149, 151 ("colubriden").
1923 H, 78, 124 (Colubrinæ).
Owen, R. 1866 A, 395.
Palacký, J. 1894 A, 130 ("colubriden").
1898 A, 91 ("colubrides").
Phisalix, M. 1912 A, 181.
1914 A, 14.
Sarkar, S. C. 1923 A, 295.
Scharff, R. F. 1911 A, 305.
Stejneger, L. 1907 C, 262 (Natricidæ).
Stejneger and Barbour 1917 A, 74.
Terra, P. 1911 A, 229.
Wallace, A. R. 1876 A, II, 375.
West, G. S. 1895 A, 813.
1898 A, 517.
Williston, S. W. 1925 B, 277.

FARANCIA Gray. Type *Coluber abacura* Holbrook.

Gray, J. E. 1842, Zool. Misc., 68.
Baird and Girard 1853 A, 123.
Boulenger, G. A. 290.
Cope, E. D. 1900 A, 740.
Stejneger and Barbour 1917 A, 75.

Farancia abacura (Holbrook).

Holbrook, J. E. 1836, N. Amer. Herpet. ed. 1, I, 119, pl. xxiii (Coluber).
Baird and Girard 1853 A, 123.
Boulenger, G. A. 1894 A, 291, fig. 20.
Cope, E. D. 1900 A, 741, fig. 154.
Hay, O. P. 1917 E, 44, 48.
1923 A, 382.
Holbrook, J. E. 1842, N. Amer. Herpet., ed. 2, III, 111, pl. xxvi (Helicops).
Stejneger and Barbour 1917 A, 75.
Recent; Gulf of Mexico north to southern Indiana and Virginia: Pleistocene; Florida.

COLUBER Linnæus. Type *C. constrictor* Linnæus.

Linnæus, C. 1858 A, 216.
Hay, O. P. 1902 A, 480 (Coluber, Bascanion).
Arldt, T. 1907 D, 274, 276.
Batelli, A. 1880 A, 355.
Boulenger, G. A. 1893 A, 379 (Zamenis).
Bronn, H. G. 1848 A, 320.
Cope, E. D. 1900 A, 787 (Zamenis).
Duméril and Bibron 1854, Erp. Gén., VII, 683 (Zamenis).
Gadow, H. 1901 B, 611 (Zamenis).
Heilprin, A. 1887 A, 323, 324 (Bascanium).
Hoffmann, C. K. 1890 C, 1865.
Kerbert, C. 1876 A, 206.
Leunis and Ludwig 1883 A, 592.
Leydig, F. 1873 A, 756.
1873 B, 3.
Mayer, C. 1824 C, 822, 835.
Owen, R. 1845 B, 224.
1857 G, 196, pl. iv, fig. 7.
Stejneger and Barbour 1917 A, 78.
Wagler, J. G. 1830, Syst. Amph., 188 (Zamenis; type *Z. gemonensis*).
Werner, F. 1904 A, 334.
Williston, S. W. 1925 B, 277 (Coluber, Bascanion).

Coluber acuminatus (Cope).

Hay, O. P. 1902 A, 480 (Bascanion).
Baker, F. C. 1920 A, 208, 213, 394 (Bascanion).
Hay, O. P. 1923 A, 312, 314.
Pleistocene (Port Kennedy); Pennsylvania.

Coluber constrictor Linnæus.

Linnæus, C. 1758 A, 216.
Baird and Girard 1853 A, 93 (Bascanion).
Cope, E. D. 1900 A, 791, fig. 171, with synonymy (Zamenis).
Peterson, O. A. 1926 A, 253 (This species?).
Recent; Eastern United States: Pleistocene?; Pennsylvania.

Coluber sp. indet.

Hay, O. P. 1902 A, 480. Pleistocene (Port Kennedy); Pennsylvania.
1923 A, 314. Pleistocene (Port Kennedy); Pennsylvania.

DRYMARCHON Fitzinger. Type *D. corais* Boie.

Fitzinger, L. J. 1843, Syst. Rept., 26.
Baird and Girard 1853 A, 92 (Georgia).
Boulenger, G. A. 1894 A, 18 (Phrynonax).
Cope, E. D. 1900 A, 857 (Compsosoma).
Duméril and Bibron 1854, Erpet. Gén., 248 (Spilotes); 290 (Compsosoma).
Stejneger and Barbour 1917 A, 84.

Drymarchon corais couperi (Holbrook).

Holbrook, J. E. 1842, N. Amer. Herp., ed. 2, III, 75, pl. xvi (Coluber couperi).
Baird and Girard 1853 A, 92 (Georgia couperii).
Cope, E. D. 1900 A, 858, figs. 199, 200 (Compsosoma c. couperii).

Hay, O. P. 1917 E, 44 (D. corais).
1923 A, 382.
Stejneger and Barbour 1917 A, 84.
Recent; Carolinas to Texas: Pleistocene (Middle or Late); Florida.

NATRIX Laurenti. Type *Natrix natrix*.

Laurenti, J. C. 1768, Syn. Rept., 73.
Unless otherwise indicated the writers, as cited, use the name Tropidonotus.
Abel, O. 1919 A, 682.
Allis, E. P. 1919 A, 385.
1919 D, 213.
Batelli, A. 1880 A, 355.
Baur, G. 1891 F, 333.
Beecker, A. 1903 A, 365.
Beer, G. R. 1926 A, 315, figs. 86, 87.
Bolk, L. 1915 C, 196.
Cartier, O. 1874 A, 196, pl. iii.
Corning, H. K. 1891 A, 613, pl. xxx.
Edgeworth, F. H. 1907 A, 512, figs. 36-39.
Fuchs, H. 1911 C, 613, figs. 4-25.
Gaupp, E. 1905 D, 1013, fig. 42.
1913 A, 57, figs. 27, 28.
Haller, G. 1924 A, 306, figs. 6, 8.
Hasse, C. 1873 C, 648, pl. xxx (Coluber).
Hayek, H. 1924 A, 141, pl. i, fig. 2; pl. ii, fig. 2.
Heilprin, A. 1887 A, 433.
Huxley, T. H. 1859 D, 405 (Coluber).
Kerbert, C. 1876 A, 213.
Kingsley, J. S. 1912 B, 94.
1925 A, 158, fig. 168.
Lebedinsky, N. G. 1917 A, 318.
Leche, W. 1893 C, 793.
Leunis and Ludwig 1883 A, 589.
Leydig, F. 1873 A, 755.
1873 B, 3.
Lydekker, R. 1912 C, 144.
Palacký, J. 1894 A, 130.
1898 A, 97, 123.
Parker and Haswell 1897 A, 324, fig. 392.
Reynolds, S. H. 1897 A, 279, 280.
Sarkar, S. C. 1923 A, 297, figs. 1-4; 10-13.
Schmidt, W. J. 1910 A, 664.
Seydel, O. 1899 A, 498, fig. 22.
Shaner, R. F. 1926 A, 362.
Stannius, H. 1856 A, 6, 48.
Stejneger, L. 1907 C, 263 (Natrix).
Taschenberg, O. 1894 A, 3607.
Vitali, G. 1909 A, 212.
Wegner, R. N. 1922 A, 420.
Weiss, A. 1901 A, 496.
Werner, F. 1904 A, 334.

Natrix sp. indet.

Wheatly, C. M. 1871 A, 237 (Tropodonotus. This genus?).
1872 B, 384 (Tropodonotus. This genus?).
Pleistocene (Early); Pennsylvania.

THAMNOPHIS Fitzinger. Type *T. sauritus* (Linnæus).

Fitzinger, L. 1843 A, 26.
Baird and Girard 1853 A, 24 (Eutænia).
Cope, E. D. 1900 A, 1014, 1255 (Eutænia).
Stejneger and Barbour 1917 A, 100.

Thamnophis sirtalis (Linnæus).

Linnæus, C. 1758 A, 222 (Coluber).
Baird and Girard 1853 A, 30 (Eutænia).
Cope, E. D. 1900 A, 1064, 1069, 1256, figs. 298-303 (Eutænia).
Hay, O. P. 1923 A, 311.
Leidy, J. 1889 H, 19 (Eutænia).
Peterson, O. A. 1926 A, 253.
Stejneger and Barbour 1917 A, 103.
Recent; United States and Canada to Wisconsin; Pleistocene?; Pennsylvania.

CROTALIDÆ Gray.

Gray, J. E. 1825 A, 204.
Hay, O. P. 1902 A, 480.
Arldt, T. 1907 D, 648 (Crotalidæ); 756 (Crotalinæ).
Bonaparte, C. L. 1833 B, 1185 (Viperidæ).
Boulenger, G. A. 1901 B, 403 (Crotalinæ).
Brown, A. E. 1904 A, 473.
Carus, V. 1875 A, 418.
Gadow, H. 1905 A, 226 (Crotalinæ).
1913 A, 103 (Crotalinæ).
Gray, J. E. 1837 D, 135.
Hoffman, C. K. 1890 C, 1866.
Leunis and Ludwig 1883 A, 576.
Lobley, J. L. 1908 A, 202, 208.
Lydekker, R. 1912 C, 43 (Crotalinæ).
Matthew, W. D. 1914 B, 387.
Nopcsa, F. 1923 G, 150 ("viperiden").
Owen, R. 1866 A, 55, 152.
Palacký, J. 1894 A, 131, 132 ("crotaliden").
1898 A, 103 ("crotalides").
1902 B, 147 ("crotaliden").
Phisalix, M. 1912 A, 163, 191 (Viperidæ).
1914 A, 16 (Viperidæ).
Scharff, R. F. 1911 A, 131 ("rattlesnakes").
Stejneger, L. 1907 A, 448.
Terra, P. 1911 A, 231.
Williston, S. W. 1925 B, 276 (Viperidæ).

CROTALUS Linnæus. Type *C. horridus* Linnæus.

Hay, O. P. 1902 A, 481.
Bronn, H. G. 1848 A, 352.
Gadow, H. 1901 B, 648.
1905 A, 226.
Giebel, C. G. 1855 A, 97.
Heilprin, A. 1887 A, 322, 323.
Hoffmann, C. K. 1890 C, 1866.
Köstlin, O. 1844 A.
Leunis and Ludwig 1883 A, 577.
Lydekker, R. 1912 C, 153.
Mayer, C. 1824 C, 822, 835.
Meckel, J. F. 1825 A.
Mivart, St. G. 1879 B, 538, fig. 6 ("rattlesnake").

Nopcsa, F. 1923 G, 150.
1923 H, 12, 13, 77, pl. ii, fig. 6.
Owen, R. 1845 B, 227, 229.
1857 G, 196, pl. iv, fig. 4.
1866 A, 55, fig. 47.
Palacký, J. 1898 A, 103.
Parker and Bettany 1877 A, 213.
Parker and Haswell 1897 A, 325, fig. 933.
Phisalix, M. 1912 A, 195.
1914 A, 1, 61.
Reynolds, S. H. 1897 A, 270, 280.
Scharff, R. F. 1911 A, 131, 253.
Stannius, H. 1856 A, 5, 48.
Stejneger and Barbour 1917 A, 108.
Taschenberg, O. 1894 A, 3599.
Terra, P. 1911 A, 142, figs. 34, 35 ("klapperschlange").
Tomes, C. S. 1876 B, 381, pl. xxxvii ("rattlesnake").
West, G. S. 1898 A, 523.
Williston, S. W. 1925 A, 72, fig. 59.
1925 B, 277.
Zittel and Broili 1911 A, 219.
1923 A, 267.

Crotalus adamanteus Beauvois.

Beauvois, —— de 1799, Trans. Amer. Philos. Soc., IV, 368.
Cope, E. D. 1900 A, 1161, fig. 333.
Hay, O. P. 1917 E, 44.
1923 A, 382.
Stejneger and Barbour 1917 A, 108.

Recent; North Carolina to Florida, west to Louisiana and Arkansas: Pleistocene (Middle or Late); Florida.

Crotalus atrox? Baird and Girard.

Hay, O. P. 1920 B, 135, pl. x, fig. 2 (This species?).

Recent; Texas to Arizona, Lower California: Pleistocene (Middle?); Texas.

Crotalus horridus Linnæus.

Hay, O. P. 1902 A, 481.
Abel, O. 1919 A, 681, fig. 532.
Cope, E. D. 1900 A, 1185, fig. 342.
Gadow, H. 1901 B, 649.
Hay, O. P. 1920 B, 96.
1923 A, 348.
Owen, R. 1845 B, 229, pl. lxv, figs. 8-11.
1866 A, 56, 394.
Stejneger and Barbour 1917 A, 109.
Zittel and Broili 1911 A, 219, fig. 360.
1923 A, 267, fig. 376.

Recent; Maine to Georgia, west to Great Plains: Pleistocene; Pennsylvania, Maryland.

Crotalus sp. indet.

Brown, B. 1908 A, 207, pl. xxii. Pleistocene; Arkansas.
Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1923 A, 314, 353. Pleistocene; Pennsylvania, Virginia.
1927 D, 216, 274. Pleistocene; California, Florida.
Miller, L. H. 1912 A, 71 (Crotalus sp.). Pleistocene; California.
Sinclair, W. J. 1904 A, 18 (Crotalus sp.). Pleistocene; California.

NEURODROMICUS Cope. Type *N. dorsalis* Cope.

Hay, O. P. 1902 A, 481.
Williston, S. W. 1925 B, 277.

Neurodromicus dorsalis Cope.

Hay, O. P. 1902 A, 481.

Oligocene (White River); Colorado.

PROTAGRAS Cope. Type *P. lacustris* Cope.

Cope, E. D. 1872 PP, 3.
Hay, O. P. 1902 A, 479.
Williston, S. W. 1925 B, 276.

Protagras lacustris Cope.

Cope, E. D. 1872 PP, 3.
Hay, O. P. 1902 A, 479.
Merrill, G. P. 1907 A, 76.

Middle Eocene (Bridger); Wyoming.

HELAGRAS Cope. Type *H. prisciformis* Cope.

Hay, O. P. 1902 A, 481.
Heilprin, A. 1887 A, 327.
Williston, S. W. 1925 B, 277.
Zittel and Broili 1923 A, 268.

Helagras prisciformis Cope.

Hay, O. P. 1902 A, 481.
Gardner, J. H. 1910 A, 731.
Gilmore, C. W. 1920 A, 10.
Matthew, W. D. 1914 B, 383.
Reeside, J. B. 1924 A, 42.

Paleocene (Torrejon); New Mexico.

CONIOPHIS Marsh. Type *C. precedens* Marsh.

Hay, O. P. 1902 A, 481.
Williston, S. W. 1902 K, 953.
1925 B, 277.

Coniophis precedens Marsh.

Hay, O. P. 1902 A, 481.
Bowen, C. F. 1915 A, 128.
Merrill, G. P. 1907 A, 66.
Osborn, H. F. 1902 I, 13.

Upper Cretaceous (Lance); Wyoming.

Class AVES Linnæus.

Hay, O. P. 1902 A, 517.
Abel, O. 1907 A, 227 ("vögel").
1910 B, (185) ("vögel").
1910 C, (230) ("vögel").
1911 A, 144 ("vögel").
1912 E, 218 ("vögel").
1912 F, 267, 279, 532 ("vögel").
1919 A, 686.
1920 A, 400.
1921 A, 143, 223, 251, 265 ("vögel").
Adams, C. C. 1902 A, 115 ("birds").
Adams, L. A. 1919 A, 99, 138.
Adolphi, H. 1922 A ("vögel").
Aeby, C. 1873 A, 699 ("vögel").
Agar, W. E. 1909 A, 378.
Agassiz, L. 1836 B, 24 ("oiseaux").
1844 C, 253 ("oiseaux").
1845 B, 299 ("birds").
Alexander, G. 1904 A ("vögel").
Allen, J. A. 1871 A.
1905 A, 662 ("birds").
Allis, E. P. 1919 D, 216.
Altmann, F. 1925 A, 100 ("vögel").
Anderson, R. J. 1902 C, 785 ("birds").
1914 A, 533 ("birds").
Andreae, A. 1903 A, 149 ("vögel").
Anthony, R. 1910 A, 779 ("oiseaux").
1912 A ("oiseaux").
1913 A, 243 ("oiseaux").
Arldt, T. 1907 C, 677 ("vögel").
1907 D, 640.
Arthaber, G. 1910 A, 552 ("vögel").
Aulmann, G. 1909 A ("vögel").
Baird, S. F. 1876 A, 357 ("birds").
Baker, F. C. 1921 A, 155 ("birds").
Baraldi, G. 1877 A, *passim* ("uccelli").
Bardeleben, K. 1903 A, 27 ("vögel").
1904 A, 110 ("vögel").
Baur, G. 1885 N, 488 ("vögel").
1887 H, 47 ("sauropsiden").
Beebe, C. W. 1906 A ("birds").
1915 A, 447 ("birds").
1915 B, 39 ("birds").
Beecker, A. 1903 A, 582 ("vögel").
Bender, O. 1907 A, 40 ("vögel").
Bergmann, C. 1841 A, 202 ("vögel").
Beyer, H. 1907 B, 298 ("vögel").
1908 B, 243 ("vögel").
1909 A, 30 ("vögel").
Bignon, F. 1889 A ("oiseaux").
Bittner, F. 1912 A, 1 ("vögel").
Blainville, H. M. D. 1817 A, 107 ("oiseaux").
1821 A, 185 ("oiseaux").
Blanford, W. T. 1876 A, 287.
Blasius, W. 1884 B, 228 ("vögel").
1885 B, 409 ("vögel").
Blendinger, W. 1904 A, 453 ("sauropsiden").
Bluntschli, H. 1912 B, 384 ("vögel").
Boas, J. E. V. 1914 B, 548, 566 ("vögel").
Bojanus, L. H. 1819 A, 1363 ("vögel").
1821 A, 1159 ("vögel").
Bonaparte, C. L. 1832 A. 294.
1833 A, 1042 ("vögel").
Bonsdorff, E. J. 1871 A, 297, 305 ("vögel").
Branca, W. 1908 B ("vögel").
Brandt, J. F. 1865 A, i ("vögel").
Brauer, A. 1914 A ("vögel").
Brauns, D. 1890 A, 149, 201, 202.
Broom, R. 1901 A, 188.
1906 D, 362, 365.
1908 E, 114.
1912 A, 625 ("birds").
1913 G, 345 ("birds").
1913 O, 631 ("birds").
1914 G, 305 ("birds").
1917 A, 977.
1926 A, 257 ("birds").
Bronn, H. G. 1849 A, 781 seq.
Bruni, A. C. 1910 A, 750 ("uccelli").
Burckhardt, R. 1902 A ("vögel").
1903 A, 78 ("vögel").
1906 A, 159 ("sauropsiden").
Carter, J. T. 1905 A, 145 ("birds").
Carus, V. 1875 A, 191.
Carus and Engelmann 1861 A, 112-1172, 1573, 1675-1680, 1702, 1709.
Case, E. C. 1898 C, 816.
Chandler, A. C. 1916 C ("birds").
Chapman, F. M. 1904 A, 482 ("birds").
Clark, H. L. 1901 A, 370 ("birds").
Claus, C. 1895 A, 343 ("vögel").
Cleland, J. 1863 A, 118 ("birds").
1863 B, 308 ("birds").
1887 A, 391 ("birds").
Cope, E. D. 1885 BB, 70 ("birds").
1891 N, 7, 53 (Monocondylia, Aves).
Cornay, J. E. 1847 A, 360 ("oiseaux").
Cunningham, J. T. 1897 A, 486 (Sauropsida).
Cutler, I. E. 1924 A, 144 ("birds").
Cuvier, G. 1805 A.
1812 A, 123 ("oiseaux").
1815 A, 103 ("oiseaux").
Dabelow, A. 1926 A, 95 ("sauropsiden").
Dana, J. D. 1863 B, 315 ("birds").
1863 C, 334 ("birds").
1863 D, 131 ("birds").
Davies, H. R. 1889 A, 560-645.
Deninger, K. 1914 A, 192-214 ("vögel").
1915 A, 187 ("vögel").
Dieck, R. 1867 A.
Diener, C. 1909 A, 32 ("vögel").
Diethelm, M. 1907 A ("vögel").
Döderlein, L. 1900 B, 55 ("vögel").
1902 A, 398 ("vögel").
Dollo, L. 1883 G, 582 ("birds").
1884 E, 66 (Sauropsida, in part).
1889 E, 146 ("oiseaux").
1893 D, 13 ("oiseaux").
1919 A, 34 ("oiseaux").
Dombrowski, B. A. 1925 A, 69, fig. 2 ("vögel").
Duerden, J. E. 1924 A, 557 ("birds").
Du Toit, P. J. 1913 A, 230 ("vögel").
1914 A, 311 ("vögel").
Edgeworth, F. H. 1907 A, 511, 546 (Sauropsida).
Edwards, A. M. 1868 A.
Eichwald, E. 1832 A, 866 ("vögel").
Eimer, G. H. T. 1901 A, 263 ("vögel").
Eisler, P. 1895 A ("vögel").
Evans, A. H. 1899 A.
Fejérváry, G. J. 1921 C, 10 ("vögel").
Filatoff, D. 1906 A, 626 ("vögel").
1907 A, 311 ("vögel").

Finn, F. 1894 A, 210 ("birds").
1894 B, 453 ("birds").
Fisher, G. J. 1888 A, 218 ("birds").
Fleischmann, A. 1910 A, 684, 700.
Foote, J. S. 1913 A ("birds").
1916 A, 15, 59 ("birds").
Forbes, W. A. 1881 A, 1.
1882 E, 386 ("birds").
Forster, A. 1905 A, 89-138.
Fraas, E. 1913 D, lxiv ("vögel").
Frech, F. 1906 A, 491 ("vögel").
Froriep, A. 1905 B, 111 (Gallus).
Fuchs, H. 1908 A, 352 ("sauropsiden").
1909 B, 131 ("vögel").
1910 B, 255 ("vögel").
1910 C, 495 ("vögel").
1912 B, 82 ("vögel").
1912 D, 156.
Fürbringer, M. 1902 B, 289, 588.
1904 A ("vögel").
Funccius, T. 1909 A, 370 ("vögel").
Gadow, H. 1896 C, 204 ("birds").
1901 A, 399 ("birds").
1902 B, 352 ("birds").
1912 B, 210 ("birds").
1913 A, 104.
1914 A, 504 ("birds").
Garbowski, T. 1895 A, 444 ("vögel").
Garrod, A. H. 1873 C, 33 ("birds").
1873 D, 626-644.
1874 A, 116.
Gaskell, W. H. 1898 A, 553.
Gaupp, E. 1895 A, 57, seq. ("vögel").
1898 B, 854 ("vögel").
1899 A, 1004, 1095 ("vögel").
1901 B, 988 ("vögel").
1902 A, 185 ("vögel").
1905 D, 1024 ("vögel").
1905 E, 161 ("vögel").
1906 B ("vögel").
1908 B ("vögel").
1908 C ("vögel").
1910 A, 541 ("vögel").
1911 A, 423 ("vögel").
1911 B, 112.
1911 C, 443, 453.
1911 D, 630 ("vögel").
1913 A, 23 ("vögel").
Gegenbaur, C. 1863 A, 450 ("vögel").
1864 B, 8 ("vogel").
1867 B, 369, 401 ("vögel").
1870 C, 397 ("vögel").
1871 A, 157 ("vögel").
1879 A, 522 ("vögel").
1880 A, 596 ("vögel").
Gemminger, M. 1852 A, 215 ("vögel").
Geoffroy St. Hilaire, E. F. 1807 C, 99 ("oiseaux").
1807 E, 346 ("oiseaux").
1817 A, 126 ("oiseaux").
1817 B, 186 ("oiseaux").
1824 D, 435 ("oiseaux").
1832 A, 354 ("oiseaux").
1853 B, 35 ("oiseaux").
1856 A, 5 ("oiseaux").
1859 A, 403, 424 ("oiseaux").
Gervais, P. 1852 A, 223 ("oiseaux").
Gessner, I. 1921 A, 271 ("vögel").
Giebel, C. G. 1855 B, 29 ("vögel").
Gill, T. 1873 E, 435.
1898 A, 696 ("birds").
1907 A, 491 ("birds").
Goodrich, E. S. 1916 A, 264.
Goodsir, J. 1857 A ("birds").
Gregory, W. K. 1915 E, 446 ("birds").
1916 C, 31 ("birds").
1917 D, 624 ("birds").
1920 A, 128.
Gregory and Camp 1918 A ("birds").
Grote, H. 1902 A, 59 ("vögel").
Haeckel, E. 1868 A, 436, 457.
Hanson, F. B. 1919 B, 76 ("birds").
Harle and Harle 1912 A, 118 ("oiseaux").
Harting, P. 1866 A, 23 ("vögel").
Hase, A. 1913 A ("vögel").
Hasse, C. 1871 A ("vögel").
1873 D, 685 ("vögel").
Hasse and Schwarck 1870 A, 40, 51 ("vögel").
Hay, O. P. 1910 C, 23 ("birds").
Hayek, H. 1924 A, 152 ("vögel").
Heilmann, G. 1913 A, 1-72, figs. 1-50.
1913 B, 51-109.
1914 A, 1-96.
1915 A, 92-160.
1916 A, 73-144.
1926 A, 1-208.
Heilprin, A. 1901 A, 21473 ("birds").
Henshaw, H. W. 1912 A, 318 ("birds").
Heiman, O. 1902 A, 1 ("vögel").
Hertwig, O. 1892 A.
Hesse, H. 1907 A, 185 ("vögel").
Hilgard, T. C. 1859 A, 337 ("birds").
1860 A, 679 ("birds").
Hilzheimer, M. 1913 A, 516 ("vögel").
Hoernes, R. 1886 A, 633.
Hollard, H. 1864 A, 13 ("oiseaux").
1864 C, 360 ("oiseaux").
Hommes, J. H. 1924 A, 14 ("birds").
Houssay and Magnan 1912 A, 39 ("oiseaux").
Howes, G. B. 1893 C, 587.
1902 A, 523 ("birds").
Howes and Swinnerton 1901 A, 2.
Huene, F. 1907 A, 152-154 ("vögel").
1908 B, 402 ("vögel").
1908 F, 404 ("vögel").
1908 H, 157-175 ("vögel").
1910 F, 148-163 ("sauropsiden").
1911 G, 147-161 ("sauropsiden").
1913 E, 480 ("vögel").
1914 G, 38 ("vögel").
1922 E, 24.
1922 F, 409 ("vögel").
1926 A, 262 ("vögel").
1927 E, 326 ("vögel").
Huxley, T. H. 1855 A, 82.
1859 D, 435, 450 ("birds").
1863 E, 443.
1863 F, 475, 529.
1867 C, 238.
1868 B, 357.
1868 D, 303 ("birds").
1869 F, 574 ("birds").
1869 G, 445 ("birds").
1869 J, 91 ("birds").
1870 G, 465, 482.
1870 H, 494 ("birds").

Huxley, T. H. 1881 A, 454 ("birds").
Ihde, —— 1912 A, 247 ("vögel").
Jacquemin, E. 1834 A, 277 ("oiseaux").
1836 A, 129 ("oiseaux").
1837 A, 565 ("oiseaux").
Jaeger, G. F. 1842 A, 441 ("vögel").
Jaekel, O. 1901 B, 52 ("vögel").
1903 F, 35 ("vögel").
1904 A, 33 ("vögel").
1906 D, 188 ("vögel").
1908 B, 467 ("vögel").
1909 A, 193, 211.
1909 C, 706 ("vögel").
1911 A, 167.
1912 A, 610 ("vögel").
1915 B, 1 ("vögel").
Johnson, A. 1883 A, 405 ("birds").
Jordan, D. S. 1905 B ("birds").
1905 C, 872 ("birds").
1922 C, 177 ("birds").
Julien, A. 1894 A, 173 ("oiseaux").
Kehrer, F. A. 1896 A, 347 ("vögel").
Kerbert, C. 1876 A, 229 ("vögel").
Kerr, J. G. 1923 A, 114.
Kessler, K. T. 1841 A, 466, 626 ("vögel").
Keyes, C. A. 1922 A, pl. iii.
Kingsley, J. S. 1901 A, 197 ("birds").
1912 B, 95.
1925 A, 46, 47, 56, 57, 169, 225, 255, 269, 287, 288.
Kjellberg, K. 1904 A, 159 ("sauropsiden," in part).
Klaatsch, H. 1893 B, 651 ("sauropoden," in part).
Klaauw, C. J. 1924 B, 596.
Klein, E. E. 1868 A ("vögel").
Knopfli, W. 1917 A, 49 ("vögel").
Köstlin, O. 1844 A, 168 ("vögel").
Koken, E. 1893 B, 427 ("vögel").
1899 A, 364 ("vögel").
Kulczycki, W. 1901 A, 589 ("vögel").
1908 A, 125 ("vögel").
Lambrecht, K. 1914 A, 58-84.
1916 B, 215-307.
1916 C, 482-501.
Larger, R. 1913 A, 702, 713 ("oiseaux").
Lavocat, A. 1883 A, 1316, 1318 ("oiseaux").
1884 A, 1126 ("oiseaux").
1885 A, 28, 40 ("oiseaux").
1889 A, 39, 48 ("oiseaux").
Lebedinsky, N. G. 1913 A, 647 ("vögel").
1913 B, 191 ("vögel").
1914 A, 84 ("vögel").
1918 A, 36 ("vögel").
1918 B, 129 ("vögel").
1921 A, 8 ("vögel").
Leche, W. 1887 A ("vögel").
LeDamany, P. 1902 A. 335 ("oiseaux").
1903 A, 273 ("oiseaux").
1903 B, 276 ("oiseaux").
1903 D, 355 ("oiseaux").
1903 E, 365 ("oiseaux").
1903 G, 127 ("oiseaux").
1906 B, 159 ("oiseaux").
Ledouble, A. F. 1903 A, 642 ("oiseaux").
L'Herminier, F. 1836 A, 107 ("oiseaux").
Leighton, V. L. 1894 A, 63 ("birds").
Lemoine, V. 1889 A, 233 ("oiseaux").
Leunis and Ludwig 1883 A, 298.
Lilienthal, G. 1917 A, 261 ("vögel").
Lindsay, B. 1885 A, 684 ("birds").
Lorenz, L. 1908 A, 325 ("vögel").
Lubosch, W. 1911 A, 325 ("vögel").
1911 B, 744 ("vögel").
1926 A, 104, fig. 1 ("vögel").
Lucas, F. A. 1894 A, 208 ("birds").
1894 B, 36 ("birds").
1902 H, 95 ("birds").
Lühder, W. 1871 A, 321 ("vögel").
Lull, R. S. 1906 B, 549 ("birds").
1917 B, 294, 337, 532.
1918 C, 128 ("birds").
Lurje, M. 1906 A, 1-61 ("vögel").
Lydekker, R. 1879 A, 1, 25.
1896 E, 398-416.
1901 A, 646 ("birds").
1903 D, 75 ("birds").
1912 C, 24 ("birds").
Mackie, S. J. 1863 C, 106 ("birds").
1863 E, 415 ("birds").
Magnan, A. 1922 A, 125-334.
Magnus, H. 1871 A.
Marsh, O. C. 1899 C, 71 ("birds").
Martins, C. 1857 A ("oiseaux").
1872 A, 308 ("oiseaux").
Matthew, W. D. 1915 A, 184, 292 ("birds").
Matthew and Granger 1917 A, 307 ("birds").
Mead, C. S. 1904 A, 53 ("birds").
Meckel, J. F. 1825 A ("vögel").
Mehnert, E. 1887 B, 212 ("vögel").
Merriam, C. H. 1906 A, 243 ("birds").
Meunier, S. 1903 A, 774 ("oiseaux").
Miller, L. H. 1913 A, 132 ("birds").
1923 A, 345 ("birds").
1928 A, 119 ("birds").
Miller, W. D. 1924 A, 1.
Mitchell, P. C. 1894 A, 211 ("birds").
Mivart, St. G. 1879 B, 537 ("birds").
Mivart and Clarke 1879 A, 526, text-fig. 9 ("birds").
Montgomery, T. H. 1901 A, 21732 ("birds").
Moodie, R. L. 1915 I, 139 ("birds").
Mook, C. C. 1918 A, 465.
Mudge, B. F. 1879 A, 224 ("birds").
Nauck, E. T. 1923 A, 4 ("vögel").
Newton, E. T. 1888 B, 439 ("birds").
Nitzsch, C. L. 1822 A, 70 ("vögel").
1862 A, 390 ("vögel").
Nopcsa, F. 1903 B, 487 ("vögel").
1907 A, 223, 232 ("birds").
1917 A, 204 ("vögel").
1923 C, 463 ("birds").
1923 H, 175, 178, 180, 184 ("vögel").
1926 A, 636 ("birds").
Norsa, E. 1895 A, 232 ("oiseaux").
O'Donoghue, C. H. 1913 A, 465 ("birds").
Oken, L. 1819 A, 1529 ("vögel").
1823 B, 444 ("vögel").
Osborn, H. F. 1904 L, 256 ("birds").
1904 M, 257.
1916 E, 511 ("birds").
1917 B, 308 ("birds").
1926 A, 186 ("birds").
1926 C, 339 ("birds").
Owen, R. 1848 B, 125, pl. ii, fig. 4.
1868 A, 862-866.

Packard, A. S. 1904 A, 221 ("birds").
Palacký, J. 1902 B, 143 ("vögel").
Pander and Alton 1827 B, 1 ("vögel").
Parker, W. K. 1864 B, 56 ("birds").
1864 B, 56 ("birds").
1869 A, 501 ("birds").
1886 A, 270 ("birds").
1887 B, 52 ("birds").
1888 C, 397 ("birds").
1888 D, 465 ("birds").
Parker and Haswell 1897 A, 350.
Perrier, E. 1920 A ("oiseaux").
1867 A, 725 ("vögel").
Peters, W. 1867 A, 725 ("vögel").
1867 B, 779 ("vögel").
1867 C, 953 ("birds").
1868 A, 592 ("vögel").
1868 B, 388 ("birds").
Petronievics, B. 1921 A, 104, 195 ("oiseaux").
Pettigrew, J. B. 1872 A, 337 ("birds").
Pfeiffer, H. 1854 A, 20.
Pictet, F. J. 1853 A, 400 ("oiseaux").
Plieninger, F. 1906 A, 407 ("vögel").
Pompeckj, J. F. 1925 A, 6 ("vögel").
Puccioni, N. 1908 A, 56 ("uccelli").
Pycraft, W. P. 1893 A, 361 ("birds").
1900 B ("birds").
1902 B, 312 ("birds").
1903 C, 221 ("birds").
1906 B, 531 ("birds").
1909 A, 204 ("birds").
1910 A ("birds").
Rabl, C. 1903 A, 166, 175 ("vögel").
Reichenbach, H. G. L. 1853 A.
Reichenow, A. 1913 A.
1914 A.
Reichert, K. B. 1837 A, 120.
1849 A, 468 ("vögel").
Retterer, E. 1908 A, 485 ("oiseaux").
Rex, H. 1911 A, 209 ("vögel").
Reynolds, S. H. 1897 A, 295-342.
Rice and Gregory 1906 A, 178 ("birds").
Ridgway, R. 1901 A, 2.
Römer, F. 1907 A, 67 ("vögel").
Röse, C. 1892 G, 139 ("vögel").
Rogenhofer, A. 1908 A, (42) ("vögel").
Romer, A. S. 1923 A, 141, fig. 1 ("birds").
1923 B, 533 ("birds").
Rosenberg, A. 1873 A, 139 ("vögel").
Ryder, J. 1887 A, 344 ("birds").
Sabatier, A. 1897 A, 806 ("oiseaux").
1902 A, 99 ("oiseaux").
Scharff, R. F. 1909 B, 21 ("birds").
1922 A, 69 ("birds").
Schauinsland, H. 1906 A, 514.
Schöne, G. 1902 A, 22 ("vögel").
Schoenichen, W. 1900 A, 501 ("vögel").
Schuchert and Barrell 1914 A, 24 ("birds").
Schwarck, W. 1872 A, 569, pl. xxvi.
Sclater, P. L. 1858 A, 130.
1886 A, 147 ("birds").
Scott, W. B. 1917 A, 174 ("birds").
Sedgwick, A. 1894 A, 42 ("birds").
Seebohm, H. 1888 A, 415 ("birds").
Seeley, H. G. 1866 B, 352 ("birds").
1872 A, 277 ("birds").
1872 B, 36 ("birds").
1876 C, 179 ("birds").
Seeley, H. G. 1887 E, 192.
Serres, M. 1852 A, 145 ("oiseaux").
1852 B, 179 ("oiseaux").
Sewertzoff, A. N. 1896 A, 274 ("vögel").
Sharpe, R. B. 1891 A.
Shiino, K. 1914 A, 378 ("vögel").
Shore, T. W. 1887 A, 363.
Shufeldt, R. W. 1882 A, 892 ("birds").
1882 B, 324 ("birds").
1886 D, 353.
1896 A, 357 ("birds").
1904 B, 833.
1904 C, 311.
1913 F, 306 ("birds").
1920 A, 634 ("birds").
Sieglbauer, F. 1911 A, 262 ("vögel").
Simpson, G. G. 1926 I, 453 ("birds").
Sippel, W. 1907 A, 490, 515 ("vögel").
Sixta, V. 1899 A, 330 ("vögel").
Sonies, F. 1907 A, 395 ("vögel").
Spencer, W. B. 1886 A, 220.
Spurrell, H. G. F. 1906 A, 123 ("birds").
Steiner, H. 1916 A, 488 ("vögel").
1918 A, 221-496.
1922 A, 307-360.
Steinmann, G. 1907 A, 456.
1908 A, 215, 221 ("vögel").
1910 A, 99 ("vögel").
1912 B, 717, 731 ("vögel").
1922 A, 239 ("vögel").
Stellwaag, F. 1912 A, 627 ("vögel").
Sterling, S. 1908 A, 333 ("vögel").
Strasser, H. 1885 A, 174 ("vögel").
1905 B, 194 ("vögel").
1905 C, 165 ("vögel").
Strecker, C. 1887 A, 308 ("vögel").
Stromer, E. 1912 A, 132.
Strong, R. M. 1921 A, 203 ("birds").
Sundevall, C. J. 1886 A, 389 ("birds").
Sushkin, P. P. 1899 B ("vögel").
1910 A, 244 ("vögel").
Taschenberg, O. 1899 A, 3649-4363.
Terra, P. 1911 A, 242 ("vögel").
Terry, R. J. 1909 A, 526 ("birds").
Tristram, H. B. 1888 A, 204 ("birds").
Trouessart, E. L. 1906 A, 66 ("oiseaux").
Van Bemmelen, J. F. 1928 A, 283 ("oiseaux").
Van den Broeck, E. 1900 A, 67 ("oiseaux").
Van Wijhe, J. W. 1905 A, 17 ("vögel").
1907 A, 14 ("birds").
1922 A, 292 ("vögel").
Versluys, J. 1903 A, 172 ("vögel").
1910 B, 178, 225 ("vögel").
1912 A, 492 ("vögel").
1912 B, 653, 687.
Vialleton, L. 1916 A, 5.
1919 A, 307 ("oiseaux").
Virchow, H. 1909 A, 424 ("vögel").
1914 A, 79 ("vögel").
1914 C, 130 ("vögel").
1921 A, 136 ("vögel").
Vitali, G. 1909 A, 214 ("uccelli").
Vogt, C. 1879 A, 244 ("oiseaux").
Voit, M. 1923 A, 68 ("vögel").
Wagner, R. 1843 A, 79.
Wallace, A. R. 1864 A, 36 ("birds").
1876 A, I, 490, 491; II, 562 ("birds").
1894 A, 433, 438 ("birds").

Wallisch, W. 1922 A, 533, fig. 1 ("vögel").
Wamich, P. 1913 A, 1 ("vögel").
Watson, D. M. S. 1917 A, 984 ("birds").
1917 B, 60 ("birds").
Weidenreich, F. 1922 B, 55 ("vögel").
1925 A, 37 ("vögel").
Weitzel, A. 1865 A, 317 ("vögel").
Wetmore, A. 1926 E, 525 ("birds").
1928 A, 145 ("birds").
Wilbrand, J. B. 1823 A, 509 ("vögel").
Williston, S. W. 1879 A, 457.
1885 A, 629 ("vögel").
1904 A, 44 ("birds").
1912 E, 260 ("birds").
Williston, S. W. 1917 C, 412 ("birds").
Woodward, A. S. 1898 E, 331 ("birds").
Woodward, H. 1904 B, 149.
Woodward and Sherborn 1891 A, 32.
Wray, R. S. 1887 A, 343 ("birds").
Wright, W. 1909 A, 674 ("birds").
Young, G. W. 1915 A, 248 ("birds").
Ziegler, H. E. 1901 A, 231, 285 ("vögel").
Zittel, K. A. 1897 A, 127 ("vögel").
1901 A, 418 ("birds").
Zittel and Lucas 1902 A, 256.
Zittel and Schlosser 1911 A, 308.
1923 A, 384-402.

Superorder SAURURÆ Huxley.

Huxley, T. H. 1867 C, 241.
Hay, O. P. 1902 A, 518.
Abel, O. 1912 F, 301.
1919 A, 693.
Beddard, F. E. 1898 A, 529.
Carus, V. 1875 A, 367.
Cope, E. D. 1891 N, 53.
Evans, A. H. 1899 A, 23 (Archæornithes).
Fürbringer, M. 1902 B, 606.
Gadow, H. 1893 A, 86 (Archæornithes).
1910 B, 976 (Archæornithes).
Garbowski, T. 1895 A, 447 ("sauruten").
Gegenbaur, C. 1879 A, 522 ("saururen").
Haeckel, E. 1868 A, 441, 458.
1873 A, 512.
Hoernes, R. 1886 A, 633.
Huxley, T. H. 1868 B, 357.
Ihde, —— 1912 A, 259 ("saururen").
Jaekel, O. 1911 A, 170 (Archornithes).
Knowlton, F. H. 1909 B, 53 (Archæornithes).
Lambrecht, K. 1914 A, 61 (Archæornithes).
1921 A, 1.
Lydekker, R. 1879 A, 25.
Newton, A. 1885 A, 44.
Newton and Gadow 1896 A, 754, 814.
Parker and Haswell 1897 A, 382, 390 (Archæornithes).
Pycraft, W. P. 1910 A, 41 (Archornithes).
Ridgway, R. 1901 A, 3.
Shufeldt, R. W. 1903 B, 34 (Archornithes).
1904 B, 849 (Archornithes).
Steinmann, G. 1907 A, 460 (Saurura).
Stromer, E. 1912 A, 142.
Vialleton, L. 1916 A, 7.
Vogt, C. 1879 A, 247 (Saururi).
Wamich, P. 1913 A, 20 ("saururen").
Woodward, A. S. 1898 B, 232.
Zittel and Lucas 1902 A, 264.
Zittel and Schlosser 1911 A, 316 (Archæornithes).
1923 A, 391 (Archæornithes).

Order ARCHÆOPTERYGOMORPHI, new name.

Hay, O. P. 1902 A, 518 (Ornithopappi).
Abel, O. 1919 A, 693 (Archæornithes).
Cope, E. D. 1891 N, 54 (Ornithopappi).
Fürbringer, M. 1888 A, 1565 (Archæopterygiformes).
Lambrecht, K. 1921 A, 1 (Archæopterygiformes).
Shufeldt, R. W. 1903 B, 34 (Archornithiformes).
1904 B, 849 (Archornithiformes).
Zittel and Lucas 1902 A, 264 (Archæornithes).
Zittel and Schlosser 1911 A, 316 (Archæornithes).
1923 A, 391 (Archæornithes).

ARCHÆOPTERYGIDÆ.

Hay, O. P. 1902 A, 518.
Carus, V. 1875 A, 368 (Archornithidæ).
Huxley, T. H. 1868 D, 307 (Archæopteryx).
Shufeldt, R. W. 1903 B, 34 (Archæopteridæ).
1904 B, 849.

ARCHÆOPTERYX Meyer.

Hay, O. P. 1902 A, 518.
Abel, O. 1911 A, 150.
1912 F, 343.
1919 A, 693.
1920 A, 401, figs. 621, 622.
Arthaber, G. 1921 B, 446.
Beddard, F. E. 1898 A, 536.
Beebe, C. W. 1906 A, 485, figs. 4-6.
1915 B, 39, 46.
Döderlein, L. 1900 B, 58.
Finn, F. 1894 B, 456.
Fuchs, H. 1909 B, 136.
Gadow, H. 1893 A, 86.
Gill, T. 1881 A, 379.
Heilmann, G. 1913 A, 1, figs. 1-4, 6-9, 11.
1926 A, 203, many figures.
Heinroth, O. 1923 A, 277, pl. iv, fig. 1; pl. v.
Huxley, T. H. 1867 A, 416, 418.
1868 E, 243.
1876 F, 180.
1880 C, 2.
Jaekel, O. 1911 A, 170, fig. 189.
1915 B, 15, fig. 6.
Knipe, H. R. 1912 A, 96, fig.
Knowlton, F. H. 1909 B, 53, fig. 19a.
Koken, E. 1899 A, 363.

Lambrecht, K. 1914 A, 61, text-fig. 5.
1921 A, 1.
Lucas, F. A. 1906 C, 316.
1916 A, 5, 4 figs.
Lull, R. S. 1917 B, 695, pl. xiv.
1922 D, 382.
Montgomery, T. H. 1901 A, 21732 ("archeopteryx").
Newton and Gadow 1896 A, 1060.
Nopcsa, F. 1907 A, 232, fig. 81.
1923 C, 463, figs. 5-7.
Parker, W. K. 1864 B, 55.
Petronievics, B. 1921 A, 103, 195.
1923 A, 94.
Petronievics and Woodward 1916 A, 283.
1917 A, 1, pl. i.
Pycraft, W. P. 1894 B, 437, pl. iv, figs. 1-7.
1910 A, 41, 455, fig. 13.
Reynolds, S. H. 1897 A, 532.
Rosenberg, A. 1873 A, 142.
Shufeldt, R. W. 1886 D, 352, 3 figs.
1907 B, 114.
Simpson, G. G. 1926 I, 453.
Steiner, H. 1916 A, 497.
1918 A, 278, 441, pls. ix, x.
1922 A, 309, 350, fig. 18.
Van Bemmelen, J. F. 1928 A, 285 ("archéopteryx").
Van den Broeck, E. 1900 A, 71 (Archeopteryx).
Vialleton, L. 1916 A, 18, fig. 8.
Vogt, C. 1879 A, 241, fig. 19.
Zittel and Schlosser 1911 A, 316, fig. 465.
1923 A, 385, fig. 498.

No American species of this genus has been recognized.

LAOPTERYX Marsh. Type *L. priscus* Marsh.

Hay, O. P. 1902 A, 518.
Beddard, F. E. 1898 A, 541.
Burckhardt, R. 1902 A, 525.
Fürbringer, M. 1902 B, 623.
Heilprin, A. 1887 A, 330.
Lambrecht, K. 1916 C, 493.
Lucas, F. A. 1902 B, 177.
Shufeldt, R. W. 1903 B, 37.
Simpson, G. G. 1926 H, 204.

The systematic position of this genus is somewhat doubtful.

Laopteryx priscus Marsh.

Hay, O. P. 1902 A, 518.
Abel, O. 1910 D, 7.
Lambrecht, K. 1921 A, 2.
Mook, C. C. 1916 A, 134.
Shufeldt, R. W. 1886 D, 356.
1903 B, 37.
1913 G, 410 (L. prisca).
Simpson, G. G. 1926 E, 3, 4.
Wetmore, A. 1928 A, 148.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Superorder EURHIPIDURÆ Gill.

Hay, O. P. 1902 A, 519 (Eurhipidura).
Abel, O. 1919 A, 695 (Ornithura).
Beddard, F. E. 1898 A, 167 (Ornithuræ).
Brauns, D. 1890 A, 202 (Euornithes).
Cope, E. D. 1891 N, 54.
Evans, A. H. 1899 A, 25 (Neornithes).
Fürbringer, M. 1902 B, 606 (Ornithuræ); 616 (Eurhipiduræ).
Gadow, H. 1910 B, 976 (Neornithes).
1893 A, 90 (Neornithes).
Jaekel, O. 1911 A, 170 (Neornithes).
Knowlton, F. H. 1909 B, 56 (Neornithes).
Lambrecht, K. 1914 A, 61 (Neornithes).
Parker and Haswell 1897 A, 382, 392 (Neornithes).
Pycraft, W. P. 1910 A, 41 (Neornithes).
Reynolds, S. H. 1897 A, 298 (Neornithes).
Ridgway, R. 1901 A, 3 (Ornithuræ).
Shufeldt, R. W. 1903 B, 38.
1904 B, 847, 849 (Ornithuræ).
Stromer, E. 1912 A, 137 (Ornithuræ).
Wetmore and Miller 1926 A, 340 (Neornithes).
Woodward, A. S. 1898 B, 234 (Neornithes).
Zittel and Lucas 1902 A, 265 (Ornithuræ).
Zittel and Schlosser 1911 A, 317 (Ornithuræ).
1923 A, 394 (Ornithura).

Order HESPERORNITHOMORPHI, new name.

Unless otherwise indicated the authors, as quoted, employ for this group the name Odontolcæ.

Hay, O. P. 1902 A, 520 (Odontolcæ); 521 (Dromæopappi).
Abel, O. 1919 A, 696.
Arldt, T. 1907 D, 669.
Baird, S. F. 1876 A, ccii.
Beddard, F. E. 1898 A, 392 (Hesperornithes).
Brauns, D. 1890 A, 149 (Odontolcæ); 202 (Odontornithes).
Case, E. C. 1898 C, 819.
Cope, E. D. 1891 N, 54 (Odontolcæ); 56 (Dromæopappi).
Delafontaine, M. 1875 A, 176 ("odontornithes").
Evans, A. H. 1899 A, 25, 45 (Odontolcæ); 25 (Hesperornithes).
Fürbringer, M. 1902 B, 608 (Odontolcæ); 609 (Dromæopappi); 632 (Hesperornithes).
Gadow, H. 1893 A, 114 (Hesperornithes).
1910 B, 977.
Garbowski, T. 1895 A, 447 ("odontolcen").
Hilzheimer, M. 1913 A, 517.
Hoernes, R. 1886 A, 635.
Huxley, T. H. 1880 C, 3 ("toothed birds").
Jaekel, O. 1911 A, 174.
Knowlton, F. H. 1909 B, 56 (Hesperornithiformes).
Lull, R. S. 1917 B, 322.
Lydekker, R. 1891 A, 202.
Newton and Gadow 1896 A, 640, 954.
Parker and Haswell 1897 A, 385.
Reynolds, S. H. 1897 A, 299.
Ridgway, R. 1901 A, 8.

Sharpe, R. B. 1899, Handlist of Birds, 116 (Hesperornithiformes).
Shufeldt, R. W. 1903 B, 33, 59 (Odontoholcæ); 59 (Hesperornithoidea).
1904 B, 848, 849 (Odontoholcæ, Hesperornithoidea).
Steinmann, G. 1922 A, 239 ("zahnvögel").
Terra, P. 1911 A, 243 ("odontolcen").
Van den Broeck, E. 1900 A, 76.
Vialleton, L. 1916 A, 7.
Vogt, C. 1879 A, 247 ("odontornithes").
Wetmore, A. 1926 E, 525 (Odontornithes).
Zittel, Eastman, etc. 1902 A, 266.
Zittel and Schlosser 1911 A, 317 (Odontolcæ); 318 (Hesperornithes).
1923 A, 394 (Odontolcæ, Hesperornithes).

HESPERORNITHIDÆ Marsh.

Marsh, O. C. 1876 F, 509.
Hay, O. P. 1902 A, 521.
Arldt, T. 1907 D, 658.
Cope, E. D. 1891 N, 56.
Gadow, H. 1893 A, 117.
Heilmann, G. 1913 A, 41 (Hesperornidæ).
Lambrecht, K. 1921 A, 18.
Lydekker, R. 1879 A, 25 (Hesperornidæ).
1891 A, 204.
Shufeldt, R. W. 1903 B, 59.
1904 B, 849.

HESPERORNIS Marsh. Type *H. regalis* Marsh.

Hay, O. P. 1902 A, 521.
Abel, O. 1912 F, 170, 676.
1920 A, 404.
1922 A, 144.
1922 C, 332, fig. 289.
Anonymous 1880 B, 458.
Arthaber, G. 1921 A, 34.
Baird, S. F. 1876 A, cciii.
Beddard, F. E. 1898 A, 541.
Beebe, C. W. 1915 B, 39.
Bigot, A. 1897 A, 467 (Hesperomis).
Boule, M. 1902 B, 910.
Brauns, D. 1890 A, 149.
Brown, B. 1909 A, 440.
1911 A, 401.
Burckhardt, R. 1902 A, 525.
Case, E. C. 1898 C, 819.
Chandler, A. C. 1916 C, 390, 391.
Dollo, L. 1896 A, 83.
Eastman, C. R. 1898 F, 138.
1904 D, 669.
Evans, A. H. 1899 A, 26.
Fejérváry, G. J. 1921 C, 11.
Fürbringer, M. 1888 A, pl. ii, fig. 4.
1902 B, 608, 632.
Gadow, H. 1893 A, 114.
Gaudry, A. 1896 A, 175.
1898 A, 127.
Grinnell, G. B. 1923 A, 336.
Hay, O. P. 1909 F, 94.
Heilmann, G. 1913 A, 27, 71.
1913 B, 44, 48.
1915 A, 116.
1916 A, 75.
1926 A, 205.
Heilprin, A. 1887 A, 330.
Hoernes, R. 1886 A, 635.
Huxley, T. H. 1876 F, 179.
Ihde, —— 1912 A, 251.
Jaekel, O. 1911 A, 174.
Kingsley, J. S. 1925 A, 48.
Knipe, H. R. 1912 A, 111, fig.
Knowlton, F. H. 1909 B, 56.
Koken, E. 1893 B, 428.
Lambrecht, K. 1921 A, 19.
Larger, R. 1913 A, 714.
Lee, Stone, Gale 1915 A, pl. v, fig. A.
Lemoine, V. 1889 A, 258.
Lucas, F. A. 1901 F, 490 (Hesperonis).
Lucas, F. A. 1901 J, 55, 83, fig. 16.
1902 B, 179.
1903 C, 195.
Lull, R. S. 1922 D, 383.
Lydekker, R. 1891 A, 205.
Marinelli, W. 1928 A, 156.
Matthew and Granger 1917 A, 309.
Mivart, St. G. 1888 A, 373.
Mudge, B. F. 1879 A, 226.
Newton, A. 1885 A, 43.
Newton, E. T. 1888 B, 439.
Newton and Gadow 1896 A, 1070.
Nopcsa, F. 1907 A, 229, 234.
1917 A, 206.
1924 B, 85.
Osborn, H. F. 1917 B, 230, fig.
Palacký, J. 1902 B, 143.
Parker, W. K. 1888 D, 469.
1888 B, 323.
1890 A, 2, 57.
Parker and Haswell 1897 A, 385, fig. 993.
Perrier, E. 1920 A, 223, 329.
Petronievics and Woodward 1916 A, 283.
Plieninger, F. 1907 A, 295.
Pycraft, W. P. 1900 A, 226, 260.
1900 B, 240.
1900 C, 1041.
1909 A, 204.
1910 A, 36, 385, fig. 11.
Reynolds, S. H. 1897 A, 299, 330, 333, 334, 338.
Schuchert and Levene 1927 A, 308.
Shufeldt, R. W. 1882 B, 326, fig. 6.
1903 B, 59, 60.
1904 A, 14, 34.
1909 A, 337.
1913 E, 394.
1915 A, 78.
1915 D, 11.
Simpson, G. G. 1926 I, 453.
Steinmann, G. 1907 A, 459, fig. 805.
1908 A, 216.
1909 A, 78.
Terra, P. 1911 A, 243, fig. 77.
Van Bemmelen, J. F. 1928 A, 291.
Van den Broeck, E. 1900 A, 76.
Vogt, C. 1879 A, 247.
Wallace, A. R. 1876 A, I, 164.
Wamich, P. 1913 A, 26.

Wetmore, A. 1928 A, 148.
Williston, S. W. 1879 A, 458.
1902 E, 252.
1925 A, 199.
Woodward, A. S. 1923 C, 86.
Woodward, H. 1904 B, 150.
Young, G. W. 1915 A, 263.
Zittel and Lucas 1902 A, 266.
Zittel and Schlosser 1911 A, 318.
1923 A, 385, 394.

Hesperornis crassipes Marsh.

Hay, O. P. 1902 A, 521.
Evans, A. H. 1899 A, 46.
Fürbringer, M. 1888 A, 157.
Gadow, H. 1893 A, 114.
Heilmann, G. 1913 A, 29, fig. 25.
Lambrecht, K. 1921 A, 19.
Lydekker, R. 1891 A, 209.
Shufeldt, R. W. 1904 A, 34.
1915 F, 292 (Lestornis).
Upper Cretaceous (Niobrara); Kansas.

Hesperornis montanus Shufeldt.

Shufeldt, R. W. 1915 F, 293, pl. xviii, figs. 4, 6, 8, 10, 12 (H. montana).
Lambrecht, K. 1921 A, 19 (H. montana).
Upper Cretaceous (Claggett); Montana.

Hesperornis regalis Marsh.

Hay, O. P. 1902 A, 521.
Abel, O. 1912 F, 177, 424, 676, figs. 114, 302.
1922 C, 328, figs. 287, 288, 292.
Anonymous 1880 B, 458.
Baird, S. F. 1876 A, cciii.
Boule, M. 1891 A, 23, fig. 7.
Evans, A. H. 1899 A, 46, fig. 13.
Fürbringer, M. 1888 A, 56, pls. ii, iv, v.
Heilmann, G. 1913 A, 26, 41, figs. 20-24, 26-32, 38, 39.
1914 A, 48, fig. 140.
Heilmann, G. 1916 A, 87, fig. 189.
1926 A, 205, many figures.
Hutchinson, H. N. 1910 A, 217, fig. 81, pl. xxxiv.
Jaekel, O. 1911 A, 174, fig. 191.
Knowlton, F. H. 1909 B, 57, figs. 20, 21.
1916 C, 493.
Lambrecht, K. 1921 A, 19.
Larger, R. 1913 A, 713.
Lewis, F. T. 1907 A, 658.
Lucas, F. A. 1902 B, 181. figures.
1903 A, 545, 548, figs. 3, 4.
1903 C, 95, pl. xxvii.
Lull, R. S. 1917 B, 537, pl. xv.
Lydekker, R. 1891 A, 205.
Merrill, G. P. 1907 A, 5.
Noack, T. 1880 A, 77.
1880 B, 89.
Schuchert, C. 1915 A, 907, figs. 490, 497.
Shufeldt, R. W. 1886 D, 356, 2 figs.
1903 B, 59.
1904 A, 32.
1915 A, 75, pl. ii.
1915 D, 21, pl. xv, fig. 129.
1915 F, 291, pl. xviii, figs. 3, 5, 7, 9, 11.
Steinmann, G. 1908 A, 224, fig. 133.
Sternberg, C. H. 1909 C, 265, fig. 41.
Williston, S. W. 1898 L, 30.
Woodward, A. S. 1923 C, 85, fig. 82.
Woodward, H. 1904 A, 146.
1904 D, 150.
Young, G. W. 1915 A, 250, fig. 19.
Zittel and Lucas 1902 A, 266, fig. 368.
Zittel and Schlosser 1911 A, 318. fig. 466.
1923 A, 385, fig. 499.
Upper Cretaceous (Niobrara); Kansas.

Hesperornis sp. indet.

Gilmore, C. W. 1915 G, 16. Upper Cretaceous (Claggett); Montana.

HARGERIA Lucas. Type *Hasperornis gracilis* Marsh.

Lucas, F. A. 1903 A, 552.
Hay, O. P. 1902 A, 521 (Hesperornis, part).
Lambrecht, K. 1921 A, 19.
Zittel and Schlosser 1911 A, 319.

Hargeria gracilis (Marsh).

Hay, O. P. 1902 A, 521 (Hesperornis).
Lambrecht, K. 1921 A, 19.
Lucas, F. A. 1902 B, 183 (Hesperornis).
1903 A, 545, figs. 1, 2 (Hesperornis); 552.
Upper Cretaceous (Niobrara); Kansas.

BAPTORNIS Marsh. Type *B. advenus* Marsh.

Hay, O. P. 1902 A, 522.
Beddard, F. E. 1898 A, 471.
Brown, B. 1909 A, 440.
1911 A, 401.
Fürbringer, M. 1902 B, 632.
Gadow, H. 1893 A, 118.
Newton and Gadow 1896 A, 280, 652.
Shufeldt, R. W. 1915 D, 11.
Van den Broeck, E. 1900 A, 76.
Zittel and Schlosser 1911 A, 318.
1923 A, 394.

Baptornis advenus Marsh.

Hay, O. P. 1902 A, 522.
Abel, O. 1919 A, 703.
1922 C, 337.
Forbes, H. O. 1900 A, 26 (B. addenus).
Lambrecht, K. 1921 A, 18.
Lucas, F. A. 1903 A, 553, figs. 6-8.
Shufeldt, R. W. 1915 D, 976, pl. i, figs. 1-16; pl. ii, fig. 12.
Wetmore, A. 1928 A, 150.
Upper Cretaceous (Niobrara); Kansas.

CONIORNIS Marsh. Type *C. altus* Marsh.

Hay, O. P. 1902 A, 522.
Forbes, H. O. 1900 A, 26 (Toniornis).
Fürbringer, M. 1902 B, 632.
Shufeldt, R. W. 1915 D, 13 (Syn. of Hesperornis).

Coniornis altus Marsh.

Hay, O. P. 1902 A, 522.
Gilmore, C. W. 1915 G, 16.
Hatcher, J. B. 1905 B, 99.
Lambrecht, K. 1921 A, 19 (Hesperornis).
Lydekker, R. 1896 E, 398.
Shufeldt, R. W. 1915 D, 13, 16, 76, pl. iii. figs. 22-24 (Coniornis, Hesperornis).
    1915 F, 292.
  Upper Cretaceous (Claggett); Montana.

Order RATITÆ Merrem.

Merrem, B. 1913, Tent. Syst. Aves., 259.
Hay, O. P. 1902 A, 522 (Dromæognathæ).
Anderson, R. J. 1909 B, 745.
Anthony, R. 1913 A, 252 ("ratites").
Arldt, T. 1907 D, 678.
Bardeleben, K. 1903 A, 28 ("ratiten").
Blatschke, F. 1904 A, 150 ("ratiten").
Burckhardt, R. 1902 A, 501 ("ratiten").
Chandler, A. C. 1916 C, 283.
Cope, E. D. 1891 N, 54.
Dabbene, R. 1910 A, figs. 35, 36 (Desmognathæ).
Eastman, C. R. 1898 F, 135.
Evans, A. H. 1899 A, 26.
Finn, F. 1894 A, 210 ("ratites").
    1894 B, 453.
Fürbringer, M. 1902 B, 609.
Gadow, H. 1893 A, 90, 103.
Gegenbaur, C. 1871 A, 195 ("ratiten").
Gregory, W. K. 1916 C, 38 ("ratites").
Haeckel, E. 1868 A, 441.
    1873 A, 512.
Heilmann, G. 1926 A, 207 ("ratites").
Howes and Swinnerton 1901 A, 2, 32.
Huene, F. 1926 B, 97 (Ratitidæ).
Huxley, T. H. 1867 C, 241.
    1868 B, 357 (Ratitæ); 360 (Dromæognathæ).
    1868 C, 312.
    1868 D, 306.
Jaekel, O. 1911 A, 175.
Lambrecht, K. 1914 A, 61, 73.
Larger, R. 1913 A, 714 ("ratites").
Lebedinsky, N. G. 1914 A, 84 ("ratiten").
Lull, R. S. 1917 B, 294.
    1922 D, 383.
Lydekker, R. 1879 A, 12, 26.
Matthew and Granger 1917 A, 312 (Desmognathæ).
Newton, A. 1885 A, 43.
Newton and Gadow 1896 A, 1080.
Nopcsa, F. 1907 A, 233.
O'Donohue, C. H. 1913 A, 465 ("dromœognathous").
Pander and Alton 1827 B, 13.
Parker, W. K. 1875 A, 699, 719.
    1878 C, 215.
    1888 A, 124 (Desmognathæ).
    1888 B, 323.
    1888 C, 397.
    1888 D, 477.
Parker and Haswell 1897 A, 382.
Petronievics and Woodward 1916 A, 283 (Desmognathæ).
Pycraft, W. P. 1900 A, 266.
    1902 B, 326 (Palæognathæ).
    1910 A, 41 (Ratitæ); 45, 46 (Palæognathæ).
Reichenow, A. 1913 A, 69.
Reynolds, S. H. 1897 A, 553.
Sieglbauer, F. 1911 A, 265 ("ratiten").
Steiner, H. 1916 A, 493.
    1918 A, 428, 494.
Van Bemmelen, J. F. 1928 A, 290 ("ratites").
Vialleton, L. 1916 A, 5 ("ratites").
Virchow, H. 1916 A, 212 ("strauss").
Wamich, P. 1913 A, 25 ("ratiten").
Woodward, A. S. 1923 C, 89.
Woodward, H. 1904 B, 152.
Wray, R. S. 1887 A, 350.
Young, G. W. 1915 A, 252 ("ratites").
Zittel and Lucas 1902 A, 268 (Desmognathæ).
Zittel and Schlosser 1911 A, 319 (Desmognathæ).
    1923 A, 391.

At present no North American fossil birds are referred to the Ratitæ.

Order CARINATÆ Merrem.

Merrem, B. 1813, Tent. Syst. Aves., 258.
Hay, O. P. 1902 A, 523 (Euornithes).
Abel, O. 1920 A, 404.
Anthony, R. 1913 A, 255 (Carinates).
Arldt, T. 1907 D, 643.
Bardeleben, K. 1903 A, 28 ("carinaten").
Bittner, F. 1912 A, 4 ("carinaten").
Burckhardt, T. 1902 A, 509 ("carinaten").
Chandler, A. C. 1916 C, 283.
Cope, E. D. 1891 N, 55 (Euornithes).
Dabbene, R. 1910 A, 79.
Eastman, C. R. 1898 F, 135.
Evans, A. H. 1899 A, 46, 49 (Euornithes, Carinatæ).
Finn, F. 1894 A, 210 ("carinates").
Fürbringer, M. 1902 B, 607 (Euornithes).
Gadow, H. 1910 B, 977.
Garbowski, T. 1895 A ("carinaten").
Gegenbaur, C. 1871 A, 165 ("carinaten").
Gregory, W. K. 1916 C, 38 ("carinates").
Haeckel, E. 1868 A, 441.
    1873 A, 512.
Heilmann, G. 1926 A, 148 ("carinates").
Hoernes, R. 1886 A, 637 (Euornithes).
Huene, F. 1908 F ("carinaten").
Huxley, T. H. 1867 C, 241, 247.
    1868 B, 357.
    1868 C, 312.
    1868 D, 312.
Lambrecht, K. 1914 A, 61.
Lebedinsky, N. G. 1913 B, 195 ("carinaten").
    1914 A, 88 ("carinaten").
Lull, R. S. 1906 B, 550.
    1917 B, 295.
    1922 D, 383 ("carinate birds").
Lydekker, R. 1879 A, 13, 26.
Matthew and Granger 1917 A, 312 (Euornithes).
Newton, A. 1885 A, 43.
Newton and Gadow 1896 A, 1062.
Nopcsa, F. 1907 A, 235 ("carinate").

O'Donoghue, C. H. 1913 A, 465.
Parker, W. K. 1875 A, 599, 721.
1887 B, 55.
1888 B, 323.
1888 C, 397.
1888 D, 467.
1890 A, 10.
Parker and Haswell 1897 A, 384.
Pycraft, W. P. 1900 A, 266.
1902 B, 325 (Neognathæ).
1910 A, 47 (Neognathæ).
Reynolds, S. H. 1897 A, 300, 334, 336.
Selenka, E. 1869 A.
Sieglbauer, F. 1911 A, 266 ("carinaten").
Stromer, E. 1912 A, 137.
Van Bemmelen, J. F. 1928 A, 290 ("carinates").
Vialleton, L. 1916 A, 5 ("carinates").
Wamich, P. 1913 A, 25 ("carinaten").
Woodward, A. S. 1923 C, 84.
Zittel and Lucas 1902 A, 271 (Euornithes).
Zittel and Schlosser 1911 A, 322 (Euornithes).
1923 A, 391 (Carinatæ); 397 (Euornithes).

Suborder ICHTHYORNITHIFORMES Fürbringer.

Fürbringer, M. 1888 A, 1542.
Unless otherwise indicated the writers, as quoted, use for this group the name Odontotormæ.
Hay, O. P. 1902 A, 519 (Odontotormæ, Pteropappi).
Abel, O. 1919 A, 697.
Anonymous 1880 B, 458.
Arldt, T. 1907 D, 669 (Odontormæ).
1912 A, 678.
Baird, S. F. 1876 A, ccii (Ichthyornithes, Odontotormæ).
Beddard, F. E. 1898 A, 469 (Ichthyornithes).
Boas, J. E. V. 1914 B, 573.
Branson, E. B. 1918 A, 92 ("toothed birds").
Case, E. C. 1898 C, 819.
Cope, E. D. 1891 N, 55 (Odontotormæ); 56 (Pteropappi).
Evans, A. H. 1899 A, 25, 48 (Ichthyornithes); 45 (Odontotormæ).
Fürbringer, M. 1888 A, 1141.
1902 B, 608, 627.
Gadow, H. 1893 A, 119, 299 (Ichthyornithes).
1910 B, 977 (Ichthyornithes).
Gill, T. 1881 A, 378.
Hoernes, R. 1886 A, 637.
Howes, G. B. 1894 A, 75.
1902 A, 524.
Huxley, T. H. 1880 C, 3 ("toothed birds").
Ihde, — 1912 A, 259 ("odontornithen").
Knowlton, F. H. 1909 B, 56 (Ichthyornithiformes).
Lambrecht, K. 1914 A, 62 (Ichthyornithes).
Lull, R. S. 1917 B, 322 (Ichthyornithes).
Lydekker, R. 1879 A, 25 (Odontotormæ, Odontormæ).
1891 A, 200.
Marsh, O. C. 1873 C, 162 (Ichthyornithes).
1875 D, 407 (Ichthyornithes).
1875 E, 630.
Newton and Gadow 1896 A, 1076.
Parker and Haswell 1897 A, 386.
Reynolds, S. H. 1897 A, 300.
Ridgway, R. 1901 A, 8.
Shufeldt, R. W. 1904 B, 850 (Ichthyornithiformes, Ichthyornithes).
Steiner, H. 1909 A, 339 (Ichthyornithiformes).
1918 A, 302, 492 (Ichthyornithes).
Steinmann, G. 1922 A, 239 ("zahnvögel").
Terra, P. 1911 A, 243 ("odontoformen").
Van den Broeck, E. 1900 A, 76.
Vialleton, L. 1916 A, 7.
Wamich, P. 1913 A, 20, 27 (Ichthyornithes).
Zittel and Lucas 1902 A, 267 (Odontormæ, Ichthyornithes).
Zittel and Schlosser 1911 A, 318 (Odontormæ).
1923 A, 394 (Odontormæ).

ICHTHYORNITHIDÆ Marsh.

Hay, O. P. 1902 A, 519 (Ichthyornithidæ); 520 (Apatornithidæ).
Arldt, T. 1907 D, 269.
Cope, E. D. 1891 N, 56.
Evans, A. H. 1899 A, 48.
Fürbringer, M. 1888 A, 1141.
Fürbringer, M. 1902 B, 629.
Lydekker, R. 1879 A, 25 (Ichthyornidæ).
1891 A, 201.
Shufeldt, R. W. 1904 B, 850 (Ichthyornithidæ, Apatornithidæ).
1913 C, 286.

ICHTHYORNIS Marsh. Type *I. dispar* Marsh.

Hay, O. P. 1902 A, 519.
Abel, O. 1920 A, 404.
1922 C, 335.
Anonymous 1880 B, 458.
Arthaber, G. 1921 A, 34.
Baird, S. F. 1876 A, cciii.
Beddard, F. E. 1898 A, 541.
Beebe, C. W. 1906 A, 3, 5, figs. 1, 2.
1915 B, 39.
Bigot, A. 1897 A, 467.
Boule, M. 1891 A, 24.
1902 B, 910.
Evans, A. H. 1899 A, 26.
Fürbringer, M. 1888 A, pl. iv.
1902 B, 608, 629.
Gaudry, A. 1896 A, 175.
1898 A, 127.
Grinnell, G. B. 1923 A, 336.
Heilmann, G. 1913 A, 21, 71.
1915 A, 116.
1916 A, 75.
1926 A, 205, fig. 104.
Heilprin, A. 1887 A, 330.
Hutchinson, H. N. 1910 A, 219, fig. 82.
Huxley, T. H. 1876 F, 179.
Ihde, — 1912 A, 251.
Knowlton, F. H. 1909 B, 59.
Koken, E. 1893 B, 428.
Lambrecht, K. 1916 C, 493.
Lankester, E. R. 1905 A, 237, fig. 173.

Lemoine, V. 1889 A, 258.
Leunis and Ludwig 1883 A, 325.
Lucas, F. A. 1902 B, 184.
Lull, R. S. 1922 D, 383.
Lydekker, R. 1879 A, 9.
Matthew and Granger 1917 A, 309.
Mudge, B. F. 1879 A, 226.
Newton, A. 1885 A, 43.
Newton and Gadow 1896 A, 1071.
Nopcsa, F. 1907 A, 234.
Osborn, H. F. 1917 B, 230.
Parker, W. K. 1888 B, 323.
  1888 D, 469.
  1890 A, 3, 57.
Pycraft, W. P. 1900 A, 260.
  1900 B, 185.
  1909 A, 204, fig.
  1910 A, 36, fig. 36.
Reynolds, S. H. 1897 A, 330, 332, 335, 341.
Schuchert and Levene 1927 A, 307.
Shufeldt, R. W. 1903 B, 59.
  1915 D, 39.
Simpson, G. G. 1926 I, 453.
Steiner, H. 1918 A, 316, 323, 441.
Steinmann, G. 1907 A, 457, fig. 802.
  1908 A, 216, 223, fig. 132.
Sternberg, C. H. 1909 C, 269.
Van den Broeck, E. 1900 A, 76.
Wallace, A. R. 1876 A, I, 164.
Wamich, P. 1913 A, 26.
Woodward, A. S. 1923 C, 86.
Wetmore, A. 1928 A, 150.
Zittel and Schlosser 1911 A, 319.
  1923 A, 394.

Ichthyornis agilis Marsh.

Hay, O. P. 1902 A, 519.
Lambrecht, K. 1921 A, 48.
Shufeldt, R. W. 1915 D, 20, 76, pl. xiii, fig. 91 (Graculavus; indeterminable).
  Upper Cretaceous (Niobrara); Kansas.

Ichthyornis anceps Marsh.

Hay, O. P. 1902 A, 519.
Lambrecht, K. 1921 A, 49.
Shufeldt, R. W. 1915 D, 19, 76, pl. xiii, fig. 93 (Graculavus; indeterminable).
  Upper Cretaceous (Niobrara); Kansas.

Ichthyornis dispar Marsh.

Hay, O. P. 1902 A, 520.
Fürbringer, M. 1888 A, pl. iv.
Gaudry, A. 1896 A, 175, fig. 165.
Heilmann, G. 1913 A, 21, figs. 13, 17.
  1913 B, 19, fig. 63.
  1926 A, 28, 42, figs. 16, 25, 27, 106.
Lambrecht, K. 1921 A, 49.
Palmer, T. S. 1919 A, 657.
Parker, J. D. 1881 A, 8.
Seeley, H. G. 1887 G, 209.
Sternberg, C. 1881 B, 3.
Wamich, P. 1913 A, 13.
Wetmore, A. 1928 A, 150.
Williston, S. W. 1898 L, 30 (Colonosaurus mudgei).
Zittel and Lucas 1902 A, 267, figs. 370, 371.
Zittel and Schlosser 1911 A, 319, fig. 468.
  1923 A, 394, fig. 501.
  Upper Cretaceous (Niobrara); Kansas.

Ichthyornis tener Marsh.

Hay, O. P. 1902 A, 520.
Lambrecht, K. 1921 A, 49.
  Upper Cretaceous (Niobrara); Kansas.

Ichthyornis validus Marsh.

Hay, O. P. 1902 A, 520.
Steiner, H. 1918 A, 302, fig. 25.
  Upper Cretaceous (Niobrara); Kansas.

Ichthyornis victor Marsh.

Hay, O. P. 1902 A, 520.
Abel, O. 1922 C, 335, fig. 293.
Boule, M. 1891 A, 25, fig. 8.
Fürbringer, M. 1888 A, pl. vii.
Heilmann, G. 1913 A, 22, figs. 14-16, 19.
  1926 A, 43, fig. 26.
Knowlton, F. H. 1909 B, 59, fig. 22.
Lambrecht, K. 1921 A, 49.
Seeley, H. G. 1887 G, 209.
Shufeldt, R. W. 1886 D, 357, fig.
Snow, F. H. 1887 A, 4.
Wetmore, A. 1928 A, 150.
Woodward, A. S. 1923 C, 86, fig. 83.
Woodward, H. 1904 B, 151.
Young, G. W. 1915 A, 250, fig. 20.
Zittel and Lucas 1902 A, 267, fig. 369.
Zittel and Schlosser 1911 A, 319, fig. 467.
  1923 A, 394, fig. 500.
  Upper Cretaceous (Niobrara); Kansas.

Ichthyornis sp. indet.

Snow, F. H. 1887 A, 4, fig. 1 (This genus?).
  Upper Cretaceous (Dakota); Kansas.

APATORNIS Marsh. Type *Ichthyornis celer* Marsh.

Hay, O. P. 1902 A, 520.
Anonymous 1880 B, 458.
Beddard, F. E. 1898 A, 535.
Fürbringer, M. 1888 A, 157, pls. iv, vii.
  1902 B, 608, 629.
Heilmann, G. 1913 A, 25, fig. 18.
  1913 B, 12, fig. 56.
  1915 A, 116.
  1916 A, 88.
  1926 A, 203.
Reynolds, S. H. 1897 A, 330.
Shufeldt, R. W. 1915 D, 8, 39.
Van den Broeck, E. 1900 A, 76.

Apatornis celer Marsh.

Hay, O. P. 1902 A, 520.
Evans, A. H. 1899 A, 49.
Lambrecht, K. 1921 A, 50.
Shufeldt, R. W. 1915 D, 8 (Apatornis); 76 (Ichthyornis).
Wetmore, A. 1928 A, 150.
  Upper Cretaceous (Niobrara); Kansas.

Suborder DIATRYMATIFORMES, new name.

Matthew and Granger 1917 A, 321 (Diatrymæ).
Sinclair, W. J. 1928 A, 65 (Diatrymæ).
Zittel and Schlosser 1923 A, 397 (Diatrymæ).

Family DIATRYMATIDÆ, new form.

Matthew and Granger 1917 A, 321 (Diatrymidæ).
Sinclair, W. J. 1928 A, 65 (Diatrimidæ).

DIATRYMA Cope. Type *D. giganteum* Cope.

Hay, O. P. 1902 A, 522.
Andrews, C. W. 1917 A, 469.
Anonymous 1923 B, 413.
Cockerell, T. D. A. 1923 C, 1.
Eastman, C. R. 1898 F, 136, 140.
Eastman, Gregory and Matthew 1917 A, 119.
Fürbringer, M. 1888 A, 1424, 1466.
 1902 B, 616, 623, 631.
Gadow, H. 1910 B, 977.
Heilprin, A. 1887 A, 331.
Joleaud, L. 1920 A, 496.
Lambrecht, K. 1916 C, 494.
 1921 A, 4.
Lucas, F. A. 1903 A, 556.
 1908 A, 311.
Lydekker, R. 1896 E, 399.
Matthew, W. D. 1923 B, 109.
 1923 C, 409.
Matthew and Granger 1917 A, 309, 321.
 1917 B, 417.
Miller, L. H. 1912 A, 100.
Newton and Gadow 1896 A, 281, 908.
Perrier, E. 1920 A, 339.
Shufeldt, R. W. 1909 A, 337.
 1913 C, 286.
 1913 G, 411.
Sinclair, W. J. 1928 A, 51.
Zittel and Lucas 1902 A, 269, 273.
Zittel and Schlosser 1911 A, 323.
 1923 A, 397.

Diatryma ajax Shufeldt.

Shufeldt, R. W. 1913 C, 287, pl. lii, figs. 4, 5; pl. liii, figs. 8, 9; pl. liv, figs. 13, 14.
Lambrecht, K. 1916 C, 495.
 1921 A, 4.
Lydekker, R. 1914 A, 638.
Matthew and Granger 1917 A, 307, 322.
Shufeldt, R. W. 1913 G, 415, pl. ii.
 1914 A, 248.
 1915 D, 37, 38.
 Lower Eocene (Wasatch); Wyoming.

Diatryma? filiferum Cockerell.

Cockerell, T. D. A. 1923 C, 4, fig. 1 (D. filifera).
Anonymous 1923 B, 413 (D. filifera).
 Eocene (Green River); Colorado.

Diatryma giganteum Cope.

Hay, O. P. 1902 A, 522.
Abel, O. 1906 B, 457.
Andrews, C. W. 1917 A, 469.
Lambrecht, K. 1921 A, 4 (D. gigantea).
Lucas, F. A. 1903 A, 556.
Matthew and Granger 1917 A, 307, 322 (D. gigantea).
 1917 B, 417 (D. gigantea).
Merrill, G. P. 1907 A, 5.
Shufeldt, R. W. 1909 A, 337 (D. gigantea).
 1913 C, 287, 288, 303, pl. li; pl. lii, figs. 6, 7; pl. liii, figs. 11, 12; pl. liv, figs. 15, 16.
 1913 G, 411, pls. i, ii (D. gigantea).
 1914 A, 248 (D. gigantea).
 1915 D, 34, pl. ii, fig. 16; pl. v, fig. 30 (D. gigantea).
Sinclair, W. J. 1928 A, 57.
 Lower Eocene (Lower Wasatch); New Mexico.

Diatryma steini Matthew and Granger.

Matthew and Granger 1917 A, 310, 322, pls. xx-xxxiii; text-fig. 1.
Anonymous 1916 B, 475, fig. 1 ("gigantic bird").
 1917 B, 379.
 1921 A, 324, fig.
Cockerell, T. D. A. 1923 C, 2.
Heilmann, G. 1926 A, 173, fig. 125.
Joleaud, L. 1920 A, 495, fig. 11.
Lambrecht, K. 1921 A, 4.
Matthew, W. D. 1918 B, 388 ("Diatryma").
 1924 F, 119 ("Diatryma").
Matthew and Granger 1917 B, 417, 2 figs.
Sinclair, W. J. 1928 A, 51, 57.
Wetmore, A. 1926 E, 525.
 1928 A, 151
 Lower Eocene (Lower Wasatch); Wyoming.

OMORHAMPHUS Sinclair. Type *O. storchii* Sinclair.

Sinclair, W. J. 1928 A, 51.

Omorhamphus storchii Sinclair.

Sinclair, W. J. 1928 A, 52, pls. i, ii; text-figs. 1-3.
 Lower Eocene (Lower Gray Bull); Wyoming).

BARORNIS Marsh. Type *B. regens* Marsh.

Hay, O. P. 1902 A, 522.
Burckhardt, R. 1902 A, 525.
Lambrecht, K. 1916 C, 493.
Lydekker, R. 1896 E, 399.
Shufeldt, R. W. 1913 G, 414.
 1915 D, 35 (Syn. of Diatryma).
Zittel and Schlosser 1923 A, 397 (Syn. of Diatryma).

Barornis regens Marsh.

Hay, O. P. 1902 A, 522.
Abel, O. 1906 B, 457.
Lambrecht, K. 1921 A, 4 (Diatryma).
Matthew and Granger 1917 A, 307, 322 (Barornis?).
Shufeldt, R. W. 1913 G, 416.
1915 D, 35, 76, pl. i, figs. 7-9; pl. v, fig. 32; pl. ix, fig. 68 (Diatryma).
Eocene?; New Jersey.

Suborder Gaviiformes.

Adolphi, H. 1922 A, 21 (Colymbiformes).
Gadow, H. 1910 B, 977 (Colymbi).
Pycraft, W. P. 1900 C, 1022 (Colymbi).
1906 A, 401 (Colymbi).
Sharpe, R. B. 1899, Hand-list of genera and species of birds, I, 115 (Colymbiformes).
Wetmore and Miller 1926 A, 340.

GAVIIDÆ Allen.

Allen, J. A. 1897 A, 312.
A. O. U. 1910 A, 24.
Bonaparte, C. L. 1838 B, 119 (Colymbinæ).
Brandt, J. F. 1840 A, 157 (Urinatores).
Carus, V. 1875 A, 365 (Colymbinæ).
Coues, E. 1884 A, 789 (Colymbidæ).
Fürbringer, M. 1888 A (Colymbidæ).
1902 B, 635 (Colymbidæ).
Gadow, H. 1893 A, 122 (Colymbidæ).
Huxley, T. H. 1867 A, 458 (Colymbidæ).
Huxley, T. H. 1867 B, 274 (Colymbidæ).
Knowlton, F. H. 1909 B, 100 (Gavidæ).
Owen, R. 1866 B, 25 ("loons").
Pycraft, W. P. 1900 C, 1019, 1042 (Colymbidæ, "divers").
Sharpe, R. B. 1891 A, 71 (Colymbiformes).
Shufeldt, R. W. 1904 A, 14 (Colymbidæ).
Steiner, H. 1916 A, 493 (Colymbidæ).
1918 A, 490 (Colymbidæ).
Wetmore and Miller 1926 A, 340.

Gavia J. R. Forster. Type *Colymbus immer* Gunnerus.

Forster, J. R. 1788, Enchirid. Hist. Nat., 38.
Adolphi, H. 1922 A, 21, 22, figs. 12, 13 (Colymbus).
Aeby, C. 1873 A, 702 (Colymbus).
Allen, J. A. 1897 A, 312.
A. O. U. 1910 A, 24.
Coues, E. 1884 A, 789 (Colymbus).
Foote, J. S. 1916 A, 71, pl. vii.
Fürbringer, M. 1888 A, pls. ii, iii, v, vi, vii (Colymbus).
Heilmann, G. 1926 A, 204, figs. 34, 35, 39-43 (Colymbus).
Knowlton, F. H. 1909 B, 101.
Magnan, A. 1922 A, pl. ix.
Miller, L. H. 1914 A, 33.
1925 B, 90.
Owen, R. 1866 B, fig. 34 (Colymbus).
Pycraft, W. P. 1900 C, 1019, 1020, pl. lxxii, fig. 2; text-fig. 1 (Colymbus septentrionalis).
Ridgway, R. 1887 A, 6, pl. ii (Urinator).
Selenka, E. 1869 A, pl. xiii, fig. 5 (Colymbus).
Steiner, H. 1918 A, 306 (Colymbus).
Sundevall, C. J. 1886 A, 406 (Colymbus).
Taschenberg, O. 1899 A, 4004 (Colymbus).

Gavia immer (Brünnich).

Brünnich, M. T. 1764, Ornith. borealis, 38 (Colymbus).
A. O. U. 1910 A, 24.
Coues, E. 1884 A, 789, figs. 529, 530 (Colymbus torquatus).
Gegenbaur, C. 1871 A, 178 (Colymbus).
Hay, O. P. 1927 D, 172.
Knowlton, F. H. 1909 B, 102, fig. 31.
Miller, L. H. 1914 A, 33 (This species?).
Recent; Northern part of northern hemisphere: Pleistocene (San Pedro); California.

Gavia pusilla Shufeldt.

Shufeldt, R. W. 1915 D, 70, pl. xiii, fig. 106.
Lambrecht, K. 1921 A, 21.
Geological level unknown; Wyoming.

Gavia sp. indet.

Hay, O. P. 1927 D, 172. Pleistocene; California.
Lambrecht, K. 1921 A, 21.
Miller, L. H. 1914 A, 33. Pleistocene (San Pedro); California.
1921 C, 130. Pleistocene (Early); California.

Suborder Colymbiformes, name with new signification.

Hay, O. P. 1902 A, 523 (Cecomorphæ, in part; Colymboidea).
Abel, O. 1919 A, 703 (Colymbiformes).
A. O. U. 1910 A, 21 (Pygopodes).
Arldt, T. 1907 D, 675 (Podicipitiformes).
Beddard, F. E. 1896 A, 540 (Colymbi).
Carus, V. 1875 A, 362 (Urinatores, in part).
Chandler, A. C. 1916 C (Colymbiformes).
Clark, H. L. 1901 A, 375 ("colymbiform").
Coues, E. 1868 A, 10 (Pygopodes).
1884 A, 787 (Pygopodes).
Dabbene, R. 1910 A, 485 (Podicipediformes).
Evans, A. H. 1899 A, 49 (Colymbiformes).
Fürbringer, M. 1888 A (Podicipitiformes).
1902 B, 633, 649 (Podicipediformes).
Gadow, H. 1893 A, 120 (Colymbiformes).
1910 B, 977 (Podicipedes).
Illiger, C. 1811 A, 281 (Pygopodes).
Jaekel, O. 1911 A, 178 (Colymbomorphæ).
Knowlton, F. H. 1909 B, 100 (Colymbiformes).
Lambrecht, K. 1914 A, 62, 73.
Lydekker, R. 1891 A, 19 (Pygopodes).
Newton, A. 1885 A, 45 (Pygopodes).
Newton and Gadow 1896 A, 1080 (Pygopodes).

Parker, W. K. 1888 D, 469 ("pygopods").
Pycraft, W. R. 1900 A, 226 (Pygopodes).
1900 C, 1018 (Pygopodes).
Seebohm, H. 1888 A, 422 (Colymbo-Podicipes).
Sharpe, R. B. 1899, Hand-list gen., spec. birds, I, 113 (Podicipedidiformes).
Shufeldt, R. W. 1894 A, 34 (Pygopodes).
1903 B, 59 (Pygopoformes).
Shufeldt, R. W. 1904 A, 13 (Pygopodes); 14 (Podicipitiformes); 13, 45 (Podicipoidea).
1904 B, 849 (Pygopoformes); 850 (Colymbo-Podicipitiformes, Podicipoidea).
Steiner, H. 1918 A, 304, 441, 490.
Vialleton, L. 1916 A, 7 (Pygopodes).
Wetmore and Miller 1926 A, 340.
Zittel, K. A. 1890 A, 838 (Podicipitiformes).

COLYMBIDÆ Vigors.

Vigors, N. A. 1825 A, 498.
Hay, O. P. 1902 A, 523.
Allen, J. A. 1893 B, 105 (Podicipidæ).
Arldt, T. 1907 D, 269, 317 (Colymbidæ); 675 (Podicipidæ).
1912 A, 756.
Beddard, F. E. 1896 A, 542 (Podicipedidæ).
Bonaparte, C. L. 1832 A, 312 (Podicepinæ).
1838 B, 119 (Podicipinæ).
Brandt, J. F. 1840 A, 198, 211 (Podicipidæ).
Carus, V. 1875 A, 365 (Podicipinæ).
Coues, E. 1884 A, 792 (Podicipedidæ).
Evans, A. H. 1899 A, 49 (Podicipedidæ).
Fürbringer, M. 1902 B, 635 (Podicipedidæ).
Gadow, H. 1893 A, 123 (Podicipedidæ).
Garrod, A. H. 1873 C, 38 (Podicipidæ).
1874 A, 117, 122 (Podicipidæ).
Hesse, H. 1907 A, 200.
Huxley, T. H. 1867 A, 430, 458.
Knowlton, F. H. 1909 B, 103 (Podicipedidæ).
Lebedinsky, N. G. 1913 A (Podicipedidæ).
Leunis and Ludwig 1883 A, 513.
Lobley, J. L. 1908 A, 202.
Newton and Gadow 1896 A, 381, 917 (Podicipedidæ).
Parker, W. K. 1888 D, 469 ("grebes").
1890 A, 2, 57 (Podicipedidæ).
Pycraft, W. P. 1900 C, 1042 (Podicipedidæ).
1910 A, 48.
Rosenberg, F. T. 1911 A, 199.
Seebohm, H. 1888 A, 433 (Podicipes).
Shufeldt, R. W. 1904 B, 850 (Podicipidæ).
1905 A, 14.
Steiner, H. 1916 A, 493 (Podicipedidæ).
1918 A, 490 (Podicipedidæ).
1922 A, 327.
Wallace, A. R. 1876 A, II, 366 (Podicipidæ).
Wetmore and Miller 1926 A, 340.

COLYMBUS Linnæus. Type *C. cristatus* Linnæus.

Linnæus, C. 1758 A, 135.
Hay, O. P. 1902 A, 523.
Allen, J. A. 1893 B, 99, 105.
A. O. U. 1910 A, 21.
Beddard, F. E. 1898 A, 545 (Podicipes).
Bittner, F. 1912 A, 5 (Podiceps).
Brandt, J. F. 1840 A, 92, 154, 157, 177, 197, 199, 203, pl. xi (Podiceps).
Brauns, D. 1890 A, 201.
Diethelm, M. 1907 A, 41 (Podiceps).
DuToit, P. J. 1913 A, 250 (Podiceps).
Eimer, G. H. T. 1901 A, 232 (Podiceps).
Evans, A. H. 1899 A, 52 (Podicipes).
Eyton, T. C. 1867 A, 214, pl. ii L; pl. xl, fig. 1 (Podiceps).
Gegenbaur, C. 1871 A, 178 (Podiceps).
Giebel, C. G. 1855 B, 33.
Heilmann, G. 1913 A, 32, fig. 28 (Podicipes).
1914 A, 69 (Podicipes).
Hesse, H. 1907 A, 201, pl. x, figs. 12, 18.
Kessler, K. T. 1841 A, 663, 688 (Podiceps).
Knowlton, F. H. 1909 B, 106 (Lophœthyia).
Lambrecht, K. 1914 A, 62, pl. viii, fig. 2.
Leunis and Ludwig 1883 A, 514 (Podiceps).
Lühder, W. 1871 A, 324 (Podiceps).
Magnan, A. 1922 A, 170, pl. x.
Meckel, J. F. 1825 A (Podiceps).
Newton and Gadow 1896 A, 1079 (Podiceps).
Owen, R. 1868 A, 902 (Podiceps).
Parker, W. K. 1888 D, 469 (Podiceps).
Pycraft, W. P. 1900 C, 1018, 1038, 1043, pl. lxxii, figs. 1, 4, 5; text-figs. 1-3.
Ridgway, R. 1887 A, 5.
Rosenberg, F. T. 1911 A, 201, figs. 1, 5, 6.
Selenka, E. 1869 A, 28 (Podiceps).
Steiner, H. 1918 A, 306, fig. 26 (Podiceps).
1922 A, 310.
Sundevall, C. J. 1886 A, 400 (Podiceps).
Wagner, R. 1843 A (Podiceps).
Weitzel, A. 1865 A, 339.
Wyman, J. 1867 B, 270, fig. 13 ("grebe").

Colymbus auritus Linnæus.

Linnæus, C. 1758 A, 135.
Hay, O. P. 1902 A, 523.
A. O. U. 1910 A, 22.
Brandt, J. F. 1840 A, 161, pl. xiv (Podiceps).
Coues, E. 1884 A, 795 (Podicipes).
Evans, A. H. 1899 A, 53 (Podicipes).
Hay, O. P. 1927 D, 244.
Knowlton, F. H. 1909 B, 105, fig. 32.
Miller, L. H. 1912 A, 80, 112.
Ridgway, R. 1887 A, 5.
Rosenberg, F. T. 1911 A, 203.
Shufeldt, R. W. 1904 A, 24, fig. 2.
1913 B, 128, 135, pl. xiv, fig. 115; pl. xxxviii, figs. 441, 448.

Recent; northern part of northern hemisphere: Pleistocene (Fossil Lake); Oregon.

Colymbus holbœlii (Reinh.).

Reinhardt, J. T. 1853, Vidensk. Medd., 76.
Hay, O. P. 1902 A, 523.
A. O. U. 1910 A, 22.
Coues, E. 1884 A, 795 (Podicipes griseigena h.).
Hay, O. P. 1927 D, 244.
Miller, L. H. 1912 A, 80, 112.
Ridgway, R. 1887 A, 5.
Shufeldt, R. W. 1904 A, 14.
1913 B, 128, pl. ix, fig. 8; pl. x, fig. 34; pl. xiii, figs. 97, 101; pl. xiv, figs. 110 (This species?), 113, 114, 116, 127, 128; pl. xv, figs. 129-148.

Recent; North America and eastern Asia: Pleistocene (Fossil Lake); Oregon.

Colymbus nigricollis californicus (Heermann).

Heermann, A. L. 1854, Proc. Acad. Nat. Sci. Phila. 1854, 179 (Podiceps californicus).
Hay, O. P. 1902 A, 523 (C. nigricollis).
A. O. U. 1910 A, 22.
Coues, E. 1884 A, 796 (Podicipes auritus c.).
Evans, A. H. 1899 A, 53 (Podicipes nigricollis).
Hay, O. P. 1927 D, 244.
Knowlton, F. H. 1909 B, 105 (Dytes).
Miller, L. H. 1912 A, 80, 112.
Rosenberg, F. T. 1911 A, 201 (Colymbus nigricollis).
Shufeldt, R. W. 1904 A, 21, fig. 1.
1913 B, 128, 135, pl. xxxviii, figs. 442-447, 450-457, 463.
Recent; western North America: Pleistocene (Fossil Lake); Oregon.

Colymbus oligoceanus Shufeldt.

Shufeldt, R. W. 1915 D, 54.
Lambrecht, K. 1921 A, 20 (C. oligocænus).
Oligocene? (John Day); Oregon.

Colymbus parvus Shufeldt.

Shufeldt, R. W. 1913 B, 136, pl. xxxix, figs. 474-477, 481-483.
Lambrecht, K. 1921 A, 20.
Shufeldt, R. W. 1913 F, 307.
Pleistocene (Fossil Lake); Oregon.

Colymbus sp. indet.

Hay, O. P. 1927 D, 136, 185. Pleistocene; Arizona, California.
Miller, L. H. 1925 B, 71 (This genus?). Pleistocene (La Brea); California.
Wetmore, A. 1924 A, 2. Pliocene? (San Pedro Valley); Arizona.

ÆCHMOPHORUS Coues. Type *Podiceps occidentalis* Lawrence.

Hay, O. P. 1902 A, 524.
Allen, J. A. 1893 B, 105, 130.
A. O. U. 1910 A, 21.
Beddard, F. E. 1896 A, 538, fig. 1.
1898 A, 535.
Newton and Gadow 1896 A, 1079 (Podicipes).
Pycraft, W. P. 1900 C, 1020, 1043.
Ridgway, R. 1887 A, 4, pl. i.
Shufeldt, R. W. 1882 B, 327, fig. 3 (Podiceps).
1904 A, 18.

Æchmophorus lucasi L. H. Miller.

Miller, L. H. 1911 A, 83, figs. 1-3.
Hay, O. P. 1927 D, 244.
Miller, L. H. 1912 A, 81, 112.
Shufeldt, R. W. 1913 B, 133, pl. ix, figs. 10, 15; pl. x, figs. 32, 33; pl. xviii, figs. 182, 183.
Pleistocene (Fossil Lake); Oregon.

Æchmophorus occidentalis (Lawrence).

Lawrence, G. N. 1858, Rep. Surv. R. R. Pacif., ix, 894 (Podiceps).
Hay, O. P. 1902 A, 524.
A. O. U. 1910 A, 21.
Chandler, A. C. 1916 C, 300.
Cope, E. D. 1878 II, 125 (Podiceps).
Hay, O. P. 1927 D, 207, 208, 209, 244.
Lawson, A. 1914 A, 15 (Æchmothorus).
Merriam, J. C. 1914 D, 15 (Æchmothorus).
Miller, L. H. 1912 A, 80, 82, 85, 112.
Osborn, H. F. 1910 B, 460 (Podiceps).
Ridgway, R. 1887 A, 4.
Shufeldt, R. W. 1904 A, 18.
1913 B, 128, pl. ix, fig. 14; pl. x, fig. 35; pl. xi, fig. 53; pl. xii; pl. xiii (fig. 92 This species?); pl. xiv, figs. 103-109, 111, 112, 117, 118-124, 126, 128; pl. xv, figs. 129-148; pls. xvi, xvii; pl. xviii, fig. 181.
Recent; western North America: Pleistocene (Fossil Lake); Oregon: (Rodeo): California.

PODILYMBUS Lesson. Type *Colymbus podiceps* Linnæus.

Hay, O. P. 1902 A, 524.
Allen, J. A. 1893 B, 99.
A. O. U. 1910 A, 23.
Beddard, F. E. 1896 A, 540 (Podicipes).
Chandler, A. C. 1916 C, 300.
Dabbene, R. 1910 A, 200.
Lebedinsky, N. G. 1913 B, 193 (Podiceps).
Owen, R. 1866 B (Podiceps).
Parker, W. K. 1888 D, 469.
Ridgway, R. 1887 A, 4, 6, pl. i.
Selenka, E. 1869 A, pl. ix, figs. 4, 5; pl. xiii, fig. 6; pl. xv, fig. 11; pl. xvii, fig. 17 (Podiceps).
Weitzel, A. 1865 A, 339 (Podiceps).

Podilymbus magnus Shufeldt.

Shufeldt, R. W. 1913 B, 136; pl. xxxviii, figs. 439, 440, 449.
1913 F, 307.
Pleistocene (Fossil Lake); Oregon.

Podilymbus podiceps (Linnæus).

Hay, O. P. 1902 A, 524.
A. O. U. 1910 A, 23.
Chandler, A. C. 1916 C, 300.
Cope, E. D. 1878 II, 125.
Dabbene, R. 1910 A, 200 (Podylymbus).
Hay, O. P. 1927 D, 198, 244.
Miller, L. H. 1912 A, 80, 112.
1925 A, 312.
Osborn, H. F. 1925 D, 542.
Ridgway, R. 1887 A, 6.
Shufeldt, R. W. 1904 A, 14, 19.
1913 B, 128, 135, pl. xxxviii, figs. 458, 462.
Recent; North and South America: Pleistocene (Fossil Lake); Oregon.

Suborder PROCELLARIIFORMES Fürbringer.

Fürbringer, M. 1888 A, 1544.
Adolphi, H. 1922 A, 33.
Allen, J. A. 1893 B, 106 (Tubinares).
A. O. U. 1910 A, 48 (Tubinares).
Arldt, T. 1907 D, 687 (Tubinares).
1912 A, 686, 687.
Brandt, J. F. 1840 A, 154, 168 (Tubinares).
Carus, V. 1875 A, 357 (Longipennes).
Chandler, A. C. 1916 C.
Coues, E. 1884 A, 773 (Tubinares).
Dabbene, R. 1910 A, 486.
Evans, A. H. 1899 A, 59 (Procellariiformes, Tubinares).
Forbes, W. A. 1881 B, 671 (Tubinares).
1882 C, 548 (Tubinares).
1882 D, 1, 4, 54 (Tubinares).
Fürbringer, M. 1888 A, 1162 (Tubinares).
1902 B, 644.
Gadow, H. 1893 A, 129.
1910 B, 977.
Illiger, C. 1811 A, 273 (Tubinares).
Knowlton, F. H. 1909 B, 107.
Lambrecht, K. 1914 A, 64, 73.
Lebedinsky, N. G. 1913 A.
1918 A, 40.
Lebedinsky, N. G. 1918 B, 145.
Leunis and Ludwig 1883 A, 502 (Longipennes).
Loomis, L. M. 1923 A, 600 (Tubinares).
Lull, R. S. 1917 B, 322 (Tubinares).
Lydekker, R. 1891 A, 184 (Tubinares).
Mivart, St. G. 1892 A, 276 (Tubinares).
Newton and Gadow 1896 A, 1086 (Tubinares).
Parker, W. K. 1875 A, 700, 712, 713 (Dysporomorphæ).
Pycraft, W. P. 1899 A, 381 (Tubinares).
1900 C, 1023 (Tubinares).
Reinhardt, J. 1874 B, 139 (Tubinares).
Seebohm, H. 1888 A, 422, 423, 431 (Tubinares).
Sharpe, R. B. 1891 A, 71.
Shufeldt, R. W. 1888 E (Tubinares).
1904 B, 850 (Procellariiformes, Tubinares).
1907 A, 109, 122 (Procellariiformes, Tubinares).
Steiner, H. 1916 A, 493 (Tubinares).
1918 A, 311, 441, 490.
1922 A, 327 (Tubinares).
Stejneger, L. 1907 B, 281 (Tubinares).
Sundevall, C. J. 1886 A, 405 (Gaviæ).
Wetmore and Miller 1926 A, 340.
Zittel, K. A. 1890 A, 843 (Tubinares).

Superfamily PROCELLARIOIDÆ, new form.

Hay, O. P. 1902 A, 526 (Procellaroidea).
Brandt, J. F. 1840 A, 154, 168 (Tubinares).
Huxley, T. H. 1867 A, 457 (Cecomorphæ, in part).
Parker, W. K. 1875 A, 699 (Cecomorphæ, in part).
Reichenow, A. 1913 A, 93 (Procellaridæ).
Steiner, H. 1916 A, 493 (Tubinares).
Vialleton, L. 1916 A, 7 (Tubinares).

DIOMEDEIDÆ Shufeldt.

Shufeldt, R. W. 1904 B, 850.
A. O. U. 1910 A, 48.
Carus, V. 1875 A, 360 (Diomedeinæ).
Coues, E. 1884 A, 774 (Diomedeinæ).
Forbes, W. A. 1881 B, 671 (Diomedeinæ).
1882 C, 548 (Diomedeinæ).
Fürbringer, M. 1888 A, 1163 (Diomedeinæ).
1902 B, 645.
Gadow, H. 1893 A, 129 (Diomedeinæ).
Gray, G. R. 1840 A, 78 (Diomedinæ).
Knowlton, F. H. 1909 B, 107.
Loomis, L. M. 1923 A, 600.
Reichenow, A. 1913 A, 95 (Diomedinæ).
Ridgway, R. 1887 A, 50.
Stejneger, L. 1885 A, 85 (Diomedidæ).
Wetmore and Miller 1926 A, 340.

DIOMEDEA Linnæus. Type *D. exulans* Linnæus.

Linnæus, C. 1758 A, 132.
Abel, O. 1922 C, 328.
Adolphi, H. 1922 A, 33, fig. 14.
Aeby, C. 1873 A, 702.
Andrews, C. W. 1916 B, 524, fig. 4.
Bignon, F. 1889 A, 275, pl. xii.
Brandt, J. F. 1840 A, 85, 86, 168, 195, pl. i, figs. 1-4.
Coues, E. 1884 A, 774.
Cuvier, G. 1805 A.
Döderlein, L. 1923 A, 142, 162.
Forbes, W. A. 1882 C, 548.
1882 D, 5, 12, 44, pls. ii-iv.
Fürbringer, M. 1888 A, pls. ii, v, vii.
1902 B, 645.
Gadow, H. 1893 A, 129.
Heilmann, G. 1926 A, 204, fig. 76 (Diomeda).
Hesse, H. 1907 A, 201, pl. vi, fig. 3.
Huxley, T. H. 1867 A, 431, fig. 13.
1867 C, 253, fig. 13.
Knowlton, F. H. 1909 B, 109.
Köstlin, O. 1844 A.
Leunis and Ludwig 1883 A, 503.
Lilienthal, G. 1917 A, 271 ("albatross").
Loomis, L. M. 1923 A, 600.
Lüdher, W. 1871 A, 325.
Lydekker, R. 1891 A, 189.
Magnan, A. 1922 A, 177, pls. ii, ix, xii, xiv.
Magnus, H. 1871 A, 60.
Newton, E. T. 1891 A, 85, pl. ix, figs. 1, 2.
Newton and Gadow 1896 A, 1066.
Owen, R. 1866 B.
1878 E, 125, pl. vi.
1880 B, 25.
Pycraft, W. P. 1900 C, 1025.
Reichenow, A. 1913 A, 96.
Reinhardt, J. 1874 B, 139, figs. 1, 2.
Ridgway, R. 1887 A, 50, pl. xiii.
Schauinsland, H. 1903 A, 56, pls. xxxii-xxxv.
Selenka, E. 1869 A, pls. iii, viii.
Steiner, H. 1918 A, 311.
Stejneger, L. 1885 A, 86.

Sundevall, C. J. 1886 A, 405.
Weitzel, A. 1865 A, 341, 356.

Diomedea nigripes Audubon.

Audubon, J. J. L. 1839, Ornith. Biog., v, 327.
A. O. U. 1910 A, 48.
Coues, E. 1884 A, 775.
Hay, O. P. 1927 D, 172.
Miller, L. H. 1914 A, 34 (This species?).
Stejneger, L. 1885 A, 86.

Recent; Alaska to western Mexico: Pleistocene (San Pedro); California.

Not included in L. H. Miller's later lists.

PROCELLARIIDÆ Bonaparte.

Bonaparte, C. L. 1840 A, 277 (Procellaridæ).
Hay, O. P. 1902 A, 526.
A. O. U. 1910 A, 50.
Arldt, T. 1907 D, 676.
  1912 A, 710 (Procellaridæ).
Boie, F. 1826 A, col. 980 (Procellaridæ).
Cuvier, G. 1805 A (Procellaria).
Dabbene, R. 1910 A, 486.
Edgeworth, F. H. 1907 A, 546 (Procellaria).
Evans, A. H. 1899 A, 59.
Forbes, W. A. 1881 B, 671.
  1882 D, 42, 47, 55.
Fürbringer, M. 1902 B, 644.
Gadow, H. 1893 A, 129 (Procellariinæ).
Garrod, A. H. 1873 C, 38.
  1873 D, 641.
  1874 A, 117, 120.
Gervais, P. 1856 A, 13 ("procellaridés").
Giebel, C. G. 1855 A, 33 (Procellaria).
Hesse, H. 1907 A, 201.
Hoernes, R. 1886 A, 641.
Huxley, T. H. 1867 A, 455, 458.
Huxley, T. H. 1867 C, 251, 271, 274.
Kessler, K. T. 1841 A, 666 (Longipennes).
Knowlton, F. H. 1909 B, 110.
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 503.
Lobley, J. L. 1908 A, 202, 207.
Loomis, L. M. 1923 A, 600.
Lühder, W. 1871 A, 324 (Procellaridæ).
Lydekker, R. 1891 A, 185.
Newton and Gadow 1896 A, 708.
Parker, W. K. 1888 D, 470 (Procellaridæ).
  1890 A, 3.
Pycraft, W. P. 1900 C, 1026 (Procellaria).
Reichenow, A. 1913 A, 104 (Hydrobatinæ).
Reinhardt, J. 1874 B, 139.
Ridgway, R. 1887 A, 50, 53 (Procellariidæ).
Shufeldt, R. W. 1904 B, 850.
  1907 A, 122.
Steiner, H. 1918 A, 311, 490 (Procellariinæ).
Taschenberg, O. 1899 A, 4251.
Wallace, A. R. 1876 A, II, 365.
Wetmore and Miller 1926 A, 340 (Hydrobatidæ).

PUFFININÆ Bonaparte.

A. O. U. 1910 A, 50 (Fulmarinæ); 52 (Puffininæ).
Carus, V. 1875 A, 361 (Puffineæ).
Knowlton, F. H. 1909 B, 116.
Shufeldt, R. W. 1907 A, 113, 122 (Puffinidæ); 122 (Puffininæ).
Wetmore and Miller 1926 A, 340.

PUFFINUS Brisson. Type *Procellaria puffinus* Brünnich.

Brisson, M. J. 1760, Ornith., VI, 130.
Hay, O. P. 1902 A, 526.
A. O. U. 1910 A, 52.
Brandt, J. F. 1840 A, 85, 87, 169, 195, pl. i, figs. 5-7.
Evans, A. H. 1899 A, 66.
Forbes, W. A. 1882 D, 5, 43, pl. ii.
Fürbringer, M. 1888 A, pl. iii.
Giebel, C. G. 1855 B, 32.
Knowlton, F. H. 1909 B, 117.
Leunis and Ludwig 1883 A, 505.
Lydekker, R. 1891 A, 185.
Magnan, A. 1922 A, 167.
Newton and Gadow 1896 A, 1080.
Pycraft, W. P. 1900 C, 1021.
Reichenow, A. 1913 A, 101, fig. 78.
Ridgway, R. 1887 A, 55, 58, pl. xvi.
Shufeldt, R. W. 1907 A, 113, 115, fig. 1.
Taschenberg, O. 1899 A, 4259.
Weitzel, A. 1865 A, 341.

Puffinus conradi Marsh.

Hay, O. P. 1902 A, 526.
Case, E. C. 1904 D, 60, pl. xxvi, figs. 3, 4.
Lambrecht, K. 1921 A, 42.
Shufeldt, R. W. 1915 D, 62, 76, pl. viii, figs. 63, 64.
Wetmore, A. 1926 D, 463.

Lower Miocene (Chesapeake); Maryland.

Puffinus diatomaticus Miller.

Miller, L. H. 1925 C, 111, pls. 1, 2, 7*a*.
Wetmore, A. 1928 A, 153.

Miocene (Temblor); California.

Puffinus opisthomelas Coues.

Coues, E. 1864, Proc. Acad. Nat. Sci. Phila., 1864, 139.
Hay, O. P. 1927 D, 172.
Knowlton, F. H. 1909 A, 117.
Miller, L. H. 1914 A, 35.
  1928 A, 120.

Recent; Pacific Ocean: Pleistocene (San Pedro); California.

Puffinus sp. indet.

Marsh, O. C. 1870 A, 213 (P. conradi, part; right ulna). Miocene; Maryland.
Miller, L. H. 1921 C, 129 ("shearwater"). Miocene (Lompoc diatom bed); California.
Wetmore, A. 1926 D, 462. Miocene; Maryland.

FULMARUS Stephens. Type *Procellaria glacialis* Linnæus.

Stephens, J. F. 1826, Gen. Zool., XIII, pt. 1, 233.
A. O. U. 1910 A, 50.
Forbes, W. A. 1882 D, 5, 48, pl. vii.
Fürbringer, M. 1888 A, pls. ii-v (Fulmaria).
Knowlton, F. H. 1909 B, 114.
Leunis and Ludwig 1883 A, 504.
Loomis, L. M. 1923 A, 600.
Newton and Gadow 1896 A, 295.
Reichenow, A. 1913 A, 99.
Taschenberg, O. 1899 A, 4064.

Fulmarus glacialis Linnæus.

Linnæus, C. 1761, Fauna Suecica, d. 2, 61.
Miller, L. H. 1928 A, 120.
Wetmore, A. 1926 D, 465 (This species?).
Miocene; Maryland.

Fulmarus glacialis glupischa Stejneger.

Stejneger, L. 1884, Auk., I, 234.
A. O. U. 1910 A, 50.
Hay, O. P. 1927 D, 172 (F. glacialis).
Miller, L. H. 1914 A, 35 (F. glacialis).
Pleistocene (San Pedro); California.

Fulmarus sp. indet.

Wetmore, A. 1926 D, 464. Miocene; Maryland.

Suborder PELECANIFORMES Sharpe.

Sharpe, R. B. 1891 A, 76.
Lebedinsky, N. G. 1913 A.
Reichenow, A. 1913 A, 120 (Steganopides).
Shufeldt, R. W. 1904 B, 850.
Wetmore, A. 1928 E, 4.
Wetmore and Miller 1926 A, 340.
See citations under Pelecanoidæ.

Superfamily PELECANOIDÆ, new form.

Unless otherwise indicated the writers, as quoted below, employ for this group the name Steganopodes.

Hay, O. P. 1902 A, 532.
Adolphi, H. 1922 A, 37.
Allen, J. A. 1893 B, 106.
A. O. U. 1910 A, 59.
Arldt, T. 1907 D, 682.
1912 A, 686, 687.
Beddard, F. E. 1898 A, 402.
Blainville, H. M. D. 1821 A, 212 ("palmipèdes").
Brandt, J. F. 1836 A, 403 ("stéganopodes").
Carus, V. 1875 A, 353.
Chandler, A. C. 1916 C, 307.
Cope, E. D. 1891 N, 57, 60.
Evans, A. H. 1899 A, 70.
Finn, F. 1894 A, 210.
1894 B, 455.
Forbes, W. A. 1881 B, 671.
Fürbringer, M. 1888 A (Steganopodes).
1902 B, 642.
Gadow, H. 1893 A, 132.
Garrod, A. H. 1873 D, 635.
1874 A, 122.
Heilmann, G. 1913 A, 63.
Hilzheimer, M. 1913 A, 517.
Huxley, T. H. 1867 A, 461 (Disporomorphæ).
1867 C, 278 (Dysporomorphæ).
Illiger, C. 1811 A, 278.
Knowlton, F. H. 1909 B, 121.
Lambrecht, K. 1914 A, 64.
Leunis and Ludwig 1883 A, 498.
Lull R. S. 1917 B, 322.
Lydekker, R. 1891 A, 36.
Miller, W. D. 1924 A, 1 (Steganopodes).
Newton and Gadow 1896 A, 1084.
Pycraft, W. P. 1900 C, 1033.
1902 A, 282.
1902 B, 324.
1903 A, 6.
1910 A, 48, 49.
Ridgway, R. 1887 A, 73.
Sharpe, R. B. 1894 D, 160 (Pelecanoidea).
Shufeldt, R. W. 1894 A, 23.
1902 A, 113.
1904 C, 315.
1907 A, 122.
1909 A, 133, 348.
1915 C, 733.
Steiner, H. 1916 A, 493.
1918 A, 313, 441, 490 (Steganopodes).
Vialleton, L. 1916 A, 7.
Wetmore, A. 1917 A, 556.
Wetmore and Miller 1926 A, 340 (Pelecani, Pelecanides).
Zittel and Lucas 1902 A, 275.
Zittel and Schlosser 1911 A, 323.
1923 A, 400.

PELECANIDÆ Vigors.

Vigors, N. A. 1825 A, 498.
Hay, O. P. 1902 A, 532.
A. O. U. 1910 A, 64.
Arldt, T. 1907 D, 672.
1912 A, 710, 756.
Beebe, C. W. 1906 A, 492 ("pelicans").
Bonaparte, C. L. 1831 A, 35 (Pelecanidæ, Pelecaninæ).
1832 A, 311 (Steganopodes, Pelecaninæ).
Brandt, J. F. 1836 A, 403 ("pélicans").
Brandt, J. F. 1840 A, 183 (Onocrotali).
Carus, V. 1875 A, 355.
Chandler, A. C. 1916 C.
Dabbene, R. 1910 A, 238.
Evans, A. H. 1899 A, 83.
Finn, F. 1894 A, 210 ("pelicans").
Fürbringer, M. 1902 B, 643.
Gadow, H. 1893 A, 132.
Garrod, A. H. 1874 A, 117.
Gegenbaur, C. 1871 A, 179 ("pelicaniden").

Grote, H. 1902 A, 60 ("pelekane").
Hesse, H. 1907 A, 203.
Huxley, T. H. 1867 C, 257, 279.
Knowlton, F. H. 1909 B, 124.
Lebedinsky, N. G. 1913 A.
L'Herminier, F. 1836 A, 113 ("pélicans").
Lobley, J. L. 1908 A, 202, 207.
Lühder, W. 1871 A, 324.
Lydekker, R. 1879 A, 13.
1891 A, 37.
Magnus, H. 1871 A, 68 ("pelekanen").
Owen, R. 1866 B, 26, 53.
Reichenow, A. 1913 A, 129.
Ridgway, R. 1887 A, 73, 81.
Shufeldt, R. W. 1902 A, 113.
1904 B, 850.
Steiner, H. 1918 A, 316.
Wagner, R. 1843 A ("pelekanen").
Wallace, A. R. 1876 A, II, 365.
Wetmore, A. 1917 A, 557 ("pelicans").
Wetmore and Miller 1926 A, 340.
Wray, R. S. 1887 A, 348 ("pelicans").

PELECANUS Linnæus. Type *P. onocrotalus* Linnæus.

Linnæus, C. 1758 A, 132.
Hay, O. P. 1902 A, 532.
Abel, O. 1912 F, 170, fig. 113.
Adolphi, H. 1922 A, 39, fig. 18.
Aeby, C. 1873 A, 702.
Allen, J. A. 1893 B, 99.
Allis, T. H. 1835 A, 155 ("pelicans").
A. O. U. 1910 A, 64.
Arldt, T. 1907 D, 672.
Beddard, F. E. 1898 A, 544.
Bignon, F. 1889 A, 277, pl. xii.
Bonsdorff, E. J. 1871 A, 305.
Brandt, J. F. 1840 A, 110, 141, 172, 185, 193, pls. vii, viii.
Brauns, D. 1890 A, 201.
Bronn, H. G. 1849 A, 696.
Chandler, A. C. 1916 C, 257.
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 484.
Eaton, G. F. 1910 A, 4 ("pelican").
Eimer, G. H. T. 1901 A, 14, 156 ("pelikane").
Evans, A. H. 1899 A, 93.
Eyton, T. C. 1867 A, 219 (Pelicanus).
Foote, J. S. 1916 A, 63.
Fürbringer, M. 1888 A, pls. ii-v.
Giebel, C. G. 1855 B, 33.
1865 A, 250.
Heilprin, A. 1887 A, 332 ("pelecan").
Hesse, H. 1907 A, 203, pl. vi, fig. 2.
Huxley, T. H. 1867 C, 258, fig. 20.
Kessler, K. T. 1841 A, 669, 690.
Knowlton, F. H 1909 B, 126
Köstlin, O. 1844 A.
Lebedinsky, N. G. 1918 A, 37.
Leunis and Ludwig 1883 A, 499.
Lilienthal, G. 1917 A, 271 ("pelikan").
Lucas, F. A. 1894 B, 36.
Lydekker, R. 1891 A, 37.
Mackie, S. J. 1863 C, 109 (Pelicanus).
Magnus, H. 1871 A.
Martin, W. 1835 A, 155 ("pelican").
Meckel, J. F. 1825 A.
Miller, L. H. 1925 B, 90.
Newton and Gadow 1896 A, 1077.
Owen, R. 1868 A, 898.
Parker, W. K. 1875 A, 713.
Reynolds, S. H. 1897 A, 337, fig. 63.
Ridgway, R. 1887 A, 81, pl. xxi.
Sundevall, C. J. 1886 A, 401, 405.
Wagner, R. 1843 A ("pelekan").
Wallace, A. R. 1876 A, II, 365.
Weitzel, A. 1865 A, 340.
Zittel and Schlosser 1911 A, 324.
1923 A, 400.

Pelecanus erythrorhynchos Gmelin.

Gmelin, J. F. 1789, Syst. Nat. I, II, 571.
Hay, O. P. 1902 A, 532 (This species?).
A. O. U. 1910 A, 65.
Chandler, A. C. 1916 C, 313, pl. xix, fig. 17.
Evans, A. H. 1899 A, 83.
Foote, J. S. 1916 A, 63, pl. v.
Giebel, C. G. 1865 A, 251.
Hay, O. P. 1927 D, 244.
Miller, L. H. 1912 A, 80, 112.
Shufeldt, R. W. 1913 B, 155 (P. exythrorhynchus?).

Recent; Temperate North America: Pleistocene (Fossil Lake); Oregon.

CYPHORNITHIDÆ Wetmore.

Wetmore, A. 1928 E, 4.

CYPHORNIS Cope. Type *C. magnus* Cope.

Hay, O. P. 1902 A, 532.
Ami, H. M. 1901 D, 331.
Fürbringer, M. 1902 B, 643.
Lambrecht, K. 1916 C, 494.
Lucas, F. A. 1902 D, 657.
Lydekker, R. 1896 E, 399.
Wetmore, A. 1928 E, 1.
Zittel and Schlosser 1911 A, 324.
1923 A, 400.

Cyphornis magnus Cope.

Hay, O. P. 1902 A, 532.
Ami, H. M. 1901 D, 332.
Lambe, L. M. 1904 C, 27, 38, 49.
1912 A, 12.
Lambrecht, K. 1921 A, 41.
Miller, L. H. 1911 D, 117.
1912 A, 65, 66.
Wetmore, A. 1928 E, 1, fig. 1.

Oligocene (White River); British Columbia.

PALÆOCHENOIDES Shufeldt. Type *P. mioceanus* Shufeldt.

Shufeldt, R. W. 1916 C, 347.
Wetmore, A. 1917 A, 556.
1928 E, 4.

Palæochenoides mioceanus Shufeldt.

Shufeldt, R. W. 1916 C, 347, pl. xv.
Lambrecht, K. 1921 A, 10 (P. miocænus).
Wetmore, A. 1917 A, 555.
1928 E, 4.
Upper Miocene?; South Carolina.

Superfamily SULOIDÆ, new name.

Gadow, H. 1910 B, 977 (Steganopodes).
Wetmore and Miller 1926 A, 341 (Sulides).

SULIDÆ Baird.

Baird, S. F. 1858, Birds N. Amer., 871.
Hay, O. P. 1902 A, 532.
A. O. U. 1910 A, 60.
Arldt, T. 1907 D, 683.
1912 A, 710, 756.
Carus, V. 1875 A, 356.
Chandler, A. C. 1916 C.
Evans, A. H. 1899 A, 73.
Fürbringer, M. 1902 B, 642 (Sulidæ, Sulinæ).
Gadow, H. 1893 A, 132.
Knowlton, F. H. 1909 B, 133.
Lebedinsky, N. G. 1913 A, 694.
Leunis and Ludwig 1883 A, 500.
Reichenow, A. 1913 A, 122.
Ridgway, R. 1887 A, 73, 74.
Shufeldt, R. W. 1902 A, 113, 132.
1904 B, 850.
1913 E, 395 ("gannets").
Steiner, H. 1918 A, 316.
Wetmore, A. 1917 A, 557.
1928 E, 4.
Wetmore and Miller 1926 A, 341.
Zittel and Lucas 1902 A, 275.

MORIS Leach. Type *Pelecanus bassanus* Linnæus.

Leach, W. E. 1816, Syst. Cat. indig. Mamm. Birds, Brit. Mus., 35.
Hay, O. P. 1902 A, 532 (Sula).
Aeby, C. 1873 A, 702 (Sula).
Allen, J. A. 1893 B, 99 (Sula).
A. O. U. 1910 A, 60 (Sula).
Andrews, C. W. 1916 B, 524 (Sula).
Beddard, F. E. 1898 A, 547 (Sula).
Bignon, F. 1889 A, 275, pl. xiii (Sula).
Brandt, J. F. 1840 A, *passim*, pl. vi (Dysporus, Sula).
Brisson, M. J. 1760, Ornith., VI, 494.
Cuvier, G. 1805 A (Sula).
Dabbene, R. 1910 A, 489 (Sula).
Diethelm, M. 1907 A, 41 (Sula).
Evans, A. H. 1899 A, 73 (Sula).
Eyton, T. C. 1867 A, 220, pls. vi, 1 (Sula).
Fürbringer, M. 1888 A, pls. ii-v, vii (Sula).
Gaupp, E. 1905 D, 1026 (Sula).
Giebel, C. G. 1855 B, 33 (Sula).
Heilmann, G. 1913 B, 73, 78, fig. 101 (Sula).
1926 A, 205 ("gannet").
Kessler, K. T. 1841 A, 671 (Sula).
Knowlton, F. H. 1909 B, 135 (Sula).
Köstlin, O. 1844 A (Sula).
Leunis and Ludwig 1883 A, 500 (Sula).
Lindsay, B. 1885 A, 691 (Sula).
Lydekker, R. 1891 A, 46 (Sula).
Magnan, A. 1922 A, 161, text-fig. 12 (Sula).
Mathews, G. M. 1915, Austral. Avian Rec., II, 123 (Sulita).
Meckel, J. F. 1825 A (Sula).
Newton and Gadow 1896 A, 1084 (Sula).
Oberholzer, H. C. 1919, Auk., XXXVI, 417.
Owen, R. 1866 B, 23, 54 (Sula).
Parker, W. K. 1875 A, 713 (Sula).
Parker and Bettany 1877 A, 263 (Sula).
Reynolds, S. H. 1897 A, 339, fig. 64 (Sula).
Ridgway, R. 1887 A, 75, pl. xix (Sula).
Seeley, H. G. 1887 G, 209 ("gannet").
Shufeldt, R. W. 1882 B, 327, fig. 2 (Sula).
Steiner, H. 1918 A, 313, fig. 27 (Sula).
Taschenberg, O. 1899 A, 4317 (Sula).
Weitzel, A. 1865 A, 340 (Sula).
Wetmore, A. 1926 D, 466.
Zittel and Schlosser 1911 A, 324 (Sula).
1923 A, 400 (Sula).

Moris lompocana Miller.

Miller, L. H. 1925 C, 114, pls. iv, vii *a*, ix (Sula).
Miocene (Temblor); California.

Moris loxostyla (Cope).

Hay, O. P. 1902 A, 532 (Sula).
Case, E. C. 1904 D, 58, pl. xxvi, fig. 2 (Sula).
Lambrecht, K. 1916 C, 494 (Sula).
1921 A, 40 (S. loxostyla, S. atlantica).
Shattuck, G. B. 1904 A, xciv (Sula).
Shufeldt, R. W. 1915 D, 62 (S. loxostyla); 62, pl. xv, fig. 123 (S. atlantica).
Wetmore, A. 1926 D, 465.
Lower Miocene; New Jersey, Maryland.

Moris sp. indet.

Miller, L. H. 1921 C, 129 ("gannet"). Miocene (Lompoc diatom bed); California.

MIOSULA Miller. Type *M. media* Miller.

Miller, L. H. 1925 C, 114.

Miosula media Miller.

Miller, L. H. 1925 C, 114, pl. v.
Miocene (Temblor); California.

SULA Brisson. Type *Pelecanus piscator* Linnæus.

Brisson, M. J. 1870, Ornith., VI, 494.
For literature of Sula see under *Moris*.

Sula willetti Miller.

Miller, L. H. 1925 B, 112, pls. iii-viii, fig. 1.
Wetmore, A. 1928 A, 153.
Miocene (Temblor); California.

PHALACROCORACIDÆ Bonaparte.

Hay, O. P. 1902 A, 533.
A. O. U. 1910 A, 62.
Arldt, T. 1907 D, 672.
1912 A, 710, 756.
Brandt, J. F. 1840 A, 91, 127, 192, 196 ("steganopoden").
Carus, V. 1875 A, 356.
Chandler, A. C. 1916 C.
Dabbene, R. 1910 A, 484.
Evans, A. H. 1899 A, 75.
Fürbringer, M. 1902 B, 642.
Gadow, H. 1893 A, 132.
Garrod, A. H. 1874 A, 117.
Hesse, H. 1907 A, 202.
Knowlton, F. H. 1909 B, 127.
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 501.
Lydekker, R. 1891 A, 46.
Reichenow, A. 1913 A, 125.
Ridgway, R. 1887 A, 73, 77.
Steiner, H. 1918 A, 316.
Shufeldt, R. W. 1902 A, 113, 165.
1904 B, 850.
1913 E, 393.
Wetmore, A. 1917 A, 557.
Zittel and Lucas 1902 A, 275.

PHALACROCORAX Brisson. Type *Pelecanus carbo* Linn.

Brisson, M. J. 1760, Ornith., VI, 511.
Hay, O. P. 1902 A, 533.
Adolphi, H. 1922 A, 9, 37, fig. 17.
Allen, J. A. 1893 B, 99.
A. O. U. 1910 A, 62.
Andrews, C. W. 1916 B, 524.
Beddard, F. E. 1898 A, 544.
Bignon, F. 1889 A.
Bonsdorff, E. J. 1871 A, 311, pl. iii.
Brandt, J. F. 1840 A, 93, 127, 175, pls. ia-iii (Carbo).
Chandler, A. C. 1916 C (Phalacocorax).
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 484, fig. 39.
Döderlein, L. 1923 A, 162.
Eaton, G. F. 1910 A, 11, pl. v, figs. 13, 14.
Evans, A. H. 1899 A, 75.
Eyton, T. C. 1869 A, pl. i.
Finn, F. 1894 A, 210.
Fürbringer, M. 1888 A, pls. iii-v, vii.
Gadow, H. 1902 C, 169, pls. xiv, xv.
Heilmann, G. 1913 A, 35, figs. 31, 32.
1913 B, 73, fig. 101.
1926 A, 51, 52, figs. 36, 38.
Hesse, H. 1907 A, 202, pl. x, fig. 15.
Huxley, T. H. 1867 C, 259, fig. 21.
Knowlton, F. H. 1909 B, 128.
Lambrecht, K. 1914 A, 83, pl. viii.
Lebedinsky, N. G. 1921 A, 13.
Leunis and Ludwig 1883 A, 501.
Lucas, F. A. 1903 A, 552, fig. 5.
Lühder, W. 1871 A, 323.
Mackie, S. G. 1863 C, 109.
Magnan, A. 1922 A, 167.
Newton and Gadow 1896 A, 1078.
Owen, R. 1866 B, 61 (Carbo).
Parker, W. K. 1875 A, 713.
1888 D, 478 ("cormorant").
Pycraft, W. P. 1900 C, 1033.
Reichenow, A. 1913 A, 125, fig. 86.
Ridgway, R. 1887 A, 77, pls. xx, xxii.
Seebohm, H. 1888 A, 416.
Shufeldt, R. W. 1882 B, 330, fig. 7.
1913 E, 393, pl. lxi.
Shufeldt, R. W. 1915 D, 17.
Steiner, H. 1918 A, 313, fig. 27.
Zittel and Schlosser 1911 A, 323.
1923 A, 400.

Phalacrocorax idahensis (Marsh).

Hay, O. P. 1902 A, 533.
1923 A, 8 (Graculus idahoensis).
1927 D, 265, 268.
Lambrecht, K. 1921 A, 38.
Merriam, J. C. 1917 A, 432 (Graculus idahoensis).
Shufeldt, R. W. 1915 D, 68, 76, pl. vi, fig. 44.
Pleistocene (Idaho); Idaho.

Phalacrocorax macropus Cope.

Hay, O. P. 1902 A, 533.
1927 D, 244.
Lambrecht, K. 1916 C, 495.
1921 A, 38.
Miller, L. H. 1912 A, 80, 112.
Neues Jahrb. Min. Geol. Pal., 1923, I, 307 (P. maximus).
Osborn, H. F. 1910 B, 460 ("Phalacrocorax").
Shufeldt, R. W. 1913 B, 137, pl. xx, figs. 260, 261; pls. xxi, xxii; pl. xxiii, figs. 284, 285, 287, 288; pl. xxxii, fig. 405; pl. xxxix, fig. 486.
1915 G, 485, pl. xxx.
Pleistocene (Fossil Lake); Oregon.

Phalacrocorax marinavis Shufeldt.

Shufeldt, R. W. 1915 D, 56, pl. xlv, figs. 113-122.
Lambrecht, K. 1921 A, 36.
Upper Oligocene (John Day); Oregon.

Phalacrocorax mediterraneus Shufeldt.

Shufeldt, R. W. 1915 D, 58, pl. xv, fig. 138.
Lambrecht, K. 1921 A, 31.
Oligocene (White River); Colorado.

Phalacrocorax penicillatus (Brandt).

Brandt, J. F. 1837, Bull. Sci. Acad. imp. Sci. St. Petersb., III, 55 (Carbo).

Chandler, A. C. 1916 C, 307.
Hay, O. P. 1927 D, 172.
Miller, L. H. 1914 A, 35 (This species?).

Recent; Pacific coast of United States: Pleistocene (San Pedro); California.

Phalacrocorax perspicillatus Pallas.

Hay, O. P. 1902 A, 533.
Evans, A. H. 1899 A, 77.
Lydekker, R. 1901 C, 254.
Lucas, F. A. 1894 B, 36.

Bering Island. Recently extinct, but not known from Pleistocene deposits.

GRACULAVUS Marsh. Type *G. velox* Marsh.

Hay, O. P. 1902 A, 533.
Arldt, T. 1907 D, 87.
Fürbringer, M. 1888 A, 1141.
1902 B, 629.
Heilprin, A. 1887 A, 330.
Shufeldt, R. W. 1915 D, 16 (Graculavis); 19 (Limosavis).
Young, G. W. 1915 A, 250.
Zittel and Schlosser 1911 A, 324.
1923 A, 399, 400.

Graculavus pumilis Marsh.

Hay, O. P. 1902 A, 533.
Lambrecht, K. 1921 A, 53.
Shufeldt, R. W. 1915 D, 19, 76, pl. vii, fig. 53.

Upper Cretaceous (Hornerstown); New Jersey. Kansas, *fide* Shufeldt.

Graculavus velox Marsh.

Hay, O. P. 1902 A, 533.
Lambrecht, K. 1921 A, 55 (Limosavus).
Shufeldt, R. W. 1915 D, 17, 76, pl. vi, fig. 33; pl. vii, fig. 49.

Upper Cretaceous (Hornerstown); New Jersey.

Graculavus sp. indet.

Lambrecht, K. 1921 A, 53.
Shufeldt, R. W. 1915 D, 20, pl. xv, figs. 125, 126 (New Jersey).

Upper Cretaceous (Hornerstown); New Jersey.

Suborder CICONIIFORMES Garrod.

Garrod, A. H. 1874 A, 117, 122.
Abel, O. 1919 A, 703.
Adolphi, H. 1922 A, 37.
Arldt, T. 1907 D, 646.
Bittner, F. 1912 A, 2 (Ciconiæ).
Evans, A. H. 1899 A, 70.
Fürbringer, M. 1888 A, 1548, 1565.
1902 B, 637, 649.
Gadow, H. 1893 A, 131.
1910 B, 977.
Huxley, T. H. 1867 A, 460, 461 (Amphimorphæ, Pelargomorphæ, Disporomorphæ).
Knowlton, F. H. 1909 B, 121.
Lambrecht, K. 1914 A, 64, 73.
Lydekker, R. 1891 A, 61 (Ciconiæ).
Parker, W. K. 1875 A (Pelargomorphæ).
Pycraft, W. P. 1910 A, 448.
Reichenow, A. 1913 A, 237 (Gressores).
Sharpe, R. B. 1891 A, 75 (Pelargoformes).
Steiner, H. 1916 A, 499 (Ciconiæ).
1918 A, 313, 490.
Wetmore and Miller 1926 A, 341.

Superfamily ARDEOIDÆ, new form.

Hay, O. P. 1902 A, 531 (Herodii, Ardeoidea).
Adolphi, H. 1922 A, 41 (Ardeæ).
Allen, J. A. 1871 A (Herodiones).
Arldt, T. 1912 A, 686, 687 (Ardeæ).
Beddard, F. E. 1898 A, 419 (Herodiones).
Bonaparte, C. L. 1832 A, 308 (Herodii).
Chandler, A. C. 1916 C (Ardeæ).
Cope, E. D. 1891 N, 58, 60 (Herodii, in part).
Dabbene, R. 1910 A, 468 (Ardeiformes).
Finn, F. 1894 B, 454 ("herons").
Fürbringer, M. 1888 A (Herodii).
1902 B, 638 (Pelargo-Herodii).
Gadow, H. 1893 A, 137 (Ardeæ).
1910 B, 977 (Ardeæ).
Garrod, A. H. 1874 A, 117 (Herodiones).
Gervais, P. 1856 A, 12 ("hérodiens").
Hilzheimer, M. 1913 A, 517 (Pelargornithes).
Huxley, T. H. 1867 C, 278 (Herodiæ).
Illiger, C. 1811 A, 255 (Herodii).
Jaekel, O. 1911 A, 177 (Pelargomorphæ).
Knowlton, F. H. 1909 B, 139 (Ardeæ).
Lambrecht, K. 1914 A, 64 (Ardeæ).
Lebedinsky, N. G. 1913 A (Ardeiformes).
Lull, R. S. 1917 B, 322 (Herodiones).
Lydekker, R. 1879 A, 27 (Pelargomorphæ).
1891 A, 59 (Herodiones).
Magnus, H. 1871 A, 86 (Herodii).
Meckel, J. F. 1825 A ("sumpfvögel").
Miller, W. D. 1924 A, 2 ("herons").
Newton, A. 1885 A, 47 (Herodiones).
Newton and Gadow 1896 A, 1070 (Herodii).
Pycraft, W. P. 1902 B, 324 ("herons").
Sharpe, R. B. 1891 A, 75.
Shufeldt, R. W. 1894 A, 23 (Ardeæ).
1901 A, 158 (Herodii).
1904 B, 853 (Herodiones).
1907 A, 122 (Herodiones).
1909 A, 252 (Herodii).
Steiner, H. 1916 A, 493 (Herodii).
1918 A, 317, 490 (Ardeæ).
Weitzel, A. 1865 A, 335, 345 ("sumpfvögel").
Wetmore and Miller 1926 A, 341 (Ardeæ).
Wray, R. S. 1887 A, 348 (Herodiones).
Zittel and Lucas 1902 A, 274 (Herodii).
Zittel and Schlosser 1911 A, 323 (Herodii).
1923 A, 399 (Herodii).

ARDEIDÆ Vigors.

Vigors, N. A. 1825 A, 488.
Hay, O. P. 1902 A, 531.
Arldt, T. 1907 D, 639.
1912 A, 710, 756.
Bittner, F. 1912 A, 2 ("ardeiden").
Bonaparte, C. L. 1831 A, 34.
1832 A, 308.
Carus, V. 1875 A, 344.
Dabbene, R. 1910 A, 468.
Evans, A. H. 1899 A, 87.
Forbes, W. A. 1882 D, 63.
Fürbringer, M. 1902 B, 638, 639.
Gadow, H. 1893 A, 137.
1914 A, 504.
Garrod, A. H. 1873 D, 637.
1874 A, 120.
Gegenbaur, C. 1871 A, 188 ("ardeiden").
Hesse, H. 1907 A, 214.
Huxley, T. H. 1867 C, 257.
Knowlton, F. H. 1909 B, 139.
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 478.
L'Herminier, F. 1836 A, 112 ("hérons").
Lobley, J. L. 1908 A, 202, 207.
Lühder, W. 1871 A, 324 (Herodinidæ).
Lydekker, R. 1879 A, 13.
Miller, L. H. 1925 B, 75.
Newton and Gadow 1896 A, 1070 ("herons").
Parker, W. K. 1869 A, 504.
1875 A, 713.
1890 A, 22 ("hérons").
Reichenow, A. 1877 A, 113, 232.
1913 A, 250.
Ridgway, R. 1887 A, 122, 126.
Shufeldt, R. W. 1894 A.
1904 B, 853.
1907 A, 123.
1909 A, 250.
Wallace, A. R. 1876 A, II, 359.
Wetmore and Miller 1926 A, 341.

ARDEINÆ Bonaparte

Bonaparte, C. L. 1840 A, 275.
A. O. U. 1910 A, 95.
Gray, G. R. 1840 A, 66.
Ridgway, R. 1887 A, 126.
Sundevall, C. J. 1886 A, 404 (Ardeæ).
Wetmore and Miller 1926 A, 341.

ARDEA Linnæus. Type *A. cinerea* Linnæus.

Linnæus, C. 1758 A, 141.
Hay, O. P. 1902 A, 531.
Adolphi, H. 1922 A, 41.
Aeby, C. 1873 A, 701, pl. xii.
Allen, J. A. 1893 B, 99.
Allis, T. H. 1835 A, 155.
Anthony, R. 1913 A, 268, fig. 10.
Arldt, T. 1907 D, 156.
Beddard, F. E. 1898 A, 422, 432, fig. 202.
Beebe, C. W. 1906 A, 490 ("heron").
Bignon, F. 1889 A.
Bittner, F. 1912 A, 9, 15.
Bonsdorff, E. J. 1871 A, 310, pl. iii.
Bronn, H. G. 1849 A, 697.
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 20, 97, 223.
Diethelm, M. 1907 A, 41.
Evans, A. H. 1899 A, 91.
Eyton, T. C. 1867 A, 195.
Fürbringer, M. 1888 A, pls. ii-iv, vi.
Gaillard, C. 1908 A, 86.
Gegenbaur, C. 1871 A, 175.
Giebel, C. G. 1855 B, 34.
Harting, P. 1866 A, 24.
Heilmann, G. 1913 B, 71, figs. 99, 102.
1926 A, 97, fig. 79.
Hesse, H. 1907 A, 214, pl. vii, fig. 2.
Kessler, K. T. 1841 A, 650, 686.
Knowlton, F. H. 1909 B, 140.
Köstlin, O. 1844 A.
Lambrecht, K. 1914 A, 64.
Leunis and Ludwig 1883 A, 479.
Lühder, W. 1871 A, 329.
Lydekker, R. 1879 A, 13, pl. ii, fig. 3.
Mackie, S. J. 1863 C, 109.
Magnan, A. 1922 A, 166, pls. ii, viii.
Magnus, H. 1871 A.
Martin, W. 1835 A, 155.
Meckel, J. F. 1825 A.
Newton and Gadow 1896 A, 1060.
Owen, R. 1866 B, 22, 39.
Parker, W. K. 1875 A, 713.
Reichenow, A. 1877 A, 123, 252.
1913 A, 256.
Ridgway, R. 1887 A, 126, 128, pls. xxxiv, xxxvi.
Shufeldt, R. W. 1901 A, 162.
1909 A, 68.
Steiner, H. 1918 A, 317, fig. 28.
Sundevall, C. J. 1886 A, 401.
Sushkin, P. P. 1899 B, 153.
Virchow, H. 1914 A, 79.
1914 D, 321, figs. 3, 4.
Weitzel, A. 1865 A, 336.

Ardea herodias Linnæus.

Linnæus, C. 1758 A, 143.
Abel, O. 1912 F, 22.
Chandler, A. C. 1916 C, 321, pl. xx, fig. 20.
Eyton, T. C. 1873 A, 5, 17, pls. xi, xiK.
Hay, O. P. 1923 A, 382.
1927 D, 185, 198.
Miller, L. H. 1909 B, 306.
1910 A, 448.
1910 C, 11.
1912 A, 78, 113.
1925 A, 317.
1925 B, 76.
Osborn, H. F. 1910 B, 473.
1925 D, 542.
Shufeldt, R. W. 1913 A, 39.
1913 B, 153, pl. xxxix, figs. 466, 467.
1913 F, 307.
1916 E, 18.
1917 B, 39, pl. ii, fig. 17.

Pleistocene (Fossil Lake); Oregon: (La Brea); California, Florida.

Ardea paloccidentalis Shufeldt.

Hay, O. P. 1902 A, 531.
1927 D, 244.
Lambrecht, K. 1921 A, 27.
Miller, L. H. 1912 A, 81, 113.
Shufeldt, R. W. 1913 B, 157.
Pleistocene (Fossil Lake); Oregon.

Ardea sellardsi Shufeldt.

Shufeldt, R. W. 1916 E, 19.
Hay, O. P. 1923 A, 382.
Shufeldt, R. W. 1917 B, 38, pl. ii, fig. 15.
Pleistocene (Middle?); Florida.

Ardea sp. indet.

Hay, O. P. 1923 A, 382.
Shufeldt, R. W. 1917 B, 36, pl. i, fig. 5 (This genus?). Pleistocene (Early); Florida.
Miller, L. H. 1925 A, 317 ("heron"). Pleistocene (McKittrick); California.

HERODIAS Boie. Type *Ardea egretta* (Gray).

Boie, F. 1822, Isis von Oken, x, 559.
A. O. U. 1910 A, 96.
Coues, E. 1884 A, 658.
Dabbene, R. 1910 A, 478.
Fürbringer, M. 1888 A.
Knowlton, F. H. 1909 B, 143.
Leunis and Ludwig 1883 A, 479 (Herodius).
Reichenow, A. 1913 A, 259.

Herodias egretta (Gmelin).

Gmelin, J. F. 1789, Syst. Nat. I, II, 629 (Ardea).
A. O. U. 1910 A, 96.
Coues, E. 1884 A, 658.
Hay, O. P. 1923 A, 382.
Knowlton, F. H. 1909 B, 143, fig. 45.
Shufeldt, R. W. 1916 E, 19 (This species?).
1917 B, 37, pl. i, figs. 5, 6, 9-11 (This species?).
Recent; North and South America: Pleistocene; Florida.

BOTAURINÆ.

A. O. U. 1910 A, 94.
Ridgway, R. 1887 A, 126.
Wetmore and Miller 1926 A, 341.

BOTAURUS Stephens. Type *Ardea stellaris* Linnæus.

Stephens, J. F. 1819, Gen. Zool., XI, pt. 2, 592.
A. O. U. 1910 A, 94.
Arldt, T. 1907 D, 156.
Beddard, F. E. 1898 A, 430, 431.
Chandler, A. C. 1916 C, 323, pl. xx, fig. 21.
Coues, E. 1884 A, 664.
Dabbene, R. 1910 A, 15, 225.
Eyton, T. C. 1867 A, 196.
Fürbringer, M. 1888 A, pl. ii.
Heilmann, G. 1926 A, 93.
Knowlton, F. H. 1909 B, 145.
Lambrecht, K. 1914 A, 83, pl. viii.
Magnan, A. 1922 A, 166.
Marinelli, W. 1928 A, 155.
Newton and Gadow 1896 A, 1061.
Parker, W. K. 1875 A, 713.
Reichenow, A. 1877 A, 241, 247.
1913 A, 251, fig. 128.
Ridgway, R. 1887 A, 126, pl. xxxiii.

Botaurus lentiginosus (Montagu).

Montagu, G. 1813, Suppl. Orn. Dict., text and plate.
Coues, E. 1884 A, 664 (B. mugitans).
Hay, O. P. 1927 D, 185.
Knowlton, F. H. 1909 B, 146.
Miller, L. H. 1921 C, 130.
1925 B, 76.
Shufeldt, R. W. 1913 A, 39.
1913 B, 152, pl. xiv, fig.; pl. xxxix, figs. 468, 471.
1913 F, 307.
Recent; whole of North America: Pleistocene (Fossil Lake); Oregon: (La Brea); California.

BOTAUROIDES Shufeldt. Type *B. parvus* Shufeldt.

Shufeldt, R. W. 1915 D, 33.
Lambrecht, K. 1921 A, 28.
Zittel and Schlosser 1923 A, 399.

Botauroides parvus Shufeldt.

Shufeldt, R. W. 1915 D, 33.
Lambrecht, K. 1921 A, 28.
Middle Eocene? (Bridger?); Wyoming.

EOCEORNIS Shufeldt. Type *E. ardetta* Shufeldt.

Shufeldt, R. W. 1915 D, 39.
Lambrecht, K. 1921 A, 28.

Eoceornis ardetta Shufeldt.

Shufeldt, R. W. 1915 D, 39, pl. xiii, fig. 102.
Lambrecht, K. 1921 A, 28.
Middle Eocene (Bridger); Wyoming.

Superfamily CICONIOIDÆ, new form.

Adolphi, H. 1922 A, 45 (Ciconiæ).
A. O. U. 1910 A, 93 (Ciconiæ).
Carus, V. 1875 A, 342 (Ciconiæ).
Chandler, A. C. 1916 C, 318, pl. xx, figs. 23-27 (Ciconiæ).
Cope, E. D. 1891 N, 60 (Herodii, in part).

Gadow, H. 1893 A, 141 (Ciconiæ).
1910 B, 977 (Ciconiæ).
Knowlton, F. H. 1909 B, 153 (Ciconiæ).
Sharpe, R. B. 1891 A, 75 (Ciconii).
Shufeldt, R. W. 1894 A, 23 (Ciconiæ).
Steiner, H. 1918 A, 317, 441, 490 (Ciconiæ).
Wetmore and Miller 1926 A, 341 (Ciconiæ, Ciconiides).

CICONIIDÆ.

Abel, O. 1926 B, 239 ("storche").
Adolphi, H. 1922 A, 45.
Arldt, T. 1907 D, 646.
Bonaparte, C. L. 1840 A, 275 (Ciconinæ).
Carus, V. 1875 A, 346.
Chandler, A. C. 1916 C, 331.
Coues, E. 1884 A, 652.
Dabbene, R. 1910 A, 472.
Forbes, W. A. 1882 D, 63.
Fürbringer, M. 1888 A, 1184-1187.
1902 B, 639, 649.
Gadow, H. 1893 A, 142.
Garrod, A. H. 1873 D, 637.
Hesse, H. 1907 A, 212.
Huxley, T. H. 1867 A, 439.
1867 C, 257.
Knowlton, F. H. 1909 B, 153.
Lambrecht, K. 1914 A, 64.
Leunis and Ludwig 1883 A, 481.
Lobley, J. L. 1908 A, 202, 207.
Lydekker, R. 1879 A, 13 (Ciconidæ).
1891 A, 61.
Miller, L. H. 1910 A, 440.
Newton and Gadow 1896 A, 1063 (Ciconiæ).
Pycraft, W. P. 1902 B, 324 ("storks").
1910 A, 402, 443 ("storks").
Reichenow, A. 1877 A, 113, 159 (Ciconidæ, Ibidæ).
1913 A, 244.
Ridgway, R. 1887 A, 122, 124.
Shufeldt, R. W. 1894 A, 24 (Ciconidæ).
Stejneger, L. 1885 A, 162.
Wetmore and Miller 1926 A, 341.

CICONIINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 119 (Ciconinæ).
A. O. U. 1910 A, 93.
Sundevall, C. J. 1886 A, 404 (Ciconiæ).
Wetmore and Miller 1926 A, 341.

CICONIA Brisson.

Brisson, M. J. 1760, Ornith., 361.
Adolphi, H. 1922 A, 13, figs. 3, 9, 20.
Allis, T. H. 1835 A, 155.
Bignon, F. 1889 A, 300, pl. xi.
Bonsdorff, E. J. 1871 A, 311.
Carus, V. 1875 A, 346.
Cuvier, G. 1805 A.
Fürbringer, M. 1888 A, pls. ii, iii, iv, vi.
Gadow, H. 1891 A.
1893 A, 141.
Gegenbaur, C. 1871 A, 176.
Giebel, C. G. 1855 B, 34.
Heilmann, G. 1926 A, 181, fig. 131.
Kessler, K. T. 1841 A, 651, 688.
Knowlton, F. H. 1909 B, 153.
Köstlin, O. 1844 A.
Lambrecht, K. 1914 A, 83, pl. viii.
Leunis and Ludwig 1883 A, 481.
Lüdher, W. 1871 A, 326, 329.
Meckel, J. F. 1825 A.
Newton and Gadow 1896 A, 1063.
Owen, R. 1848 B, 158.
1866 B, 23.
Parker, W. K. 1875 A, 713.
1875 D, 115.
Reichenow, A. 1877 A, 121, 168.
1913 A, 247.
Selenka, E. 1869 A, pl. iii, figs. 1, 2; pl. viii, fig. 14; pl. x, fig. 7; pl. xv.
Steiner, H. 1918 A, 317.
Sundevall, C. J. 1886 A, 400, 401.
Wagner, R. 1843 A ("storch").
Weitzel, A. 1865 A, 337.

Ciconia maltha L. H. Miller.

Miller, L. H. 1910 A, 440, figs. 1-7.
Hay, O. P. 1927 D, 185.
Lambrecht, K. 1921 A, 26 (C. malta).
Miller, L. H. 1912 A, 78, 97, 113.
1921 A, 567 ("Ciconia").
1923 A, 352 ("stork").
1925 A, 317.
1925 B, 74, figs. 1-5.
Osborn, H. F. 1925 D, 542.
Pleistocene (Early); California.

Ciconia sp. indet.

Hay, O. P. 1927 D, 198. Pleistocene; California.
Merriam and Stock 1925 B.

JABIRU Hellmayr. Type *Ciconia mycteria* Lichtenstein.

Hellmayr, C. E. 1906, Abh. k. Bayer, Akad. Wiss., phys. Kl., XXII, 711.
Allen, J. A. 1908, A, 38.
Beddard, F. E. 1898 A, 427 (Mycteria).
Beebe, C. W. 1906 A, 72 ("jabiru").
Dabbene, R. 1910 A, 482 (Mycteria).
Eyton, T. C. 1867 A, 194 (Mycteria).
Newton and Gadow 1896 A, 1075 (Mycteria).
Owen, R. 1866 B, 147, fig. 65 (jabiru").
Reichenow, A. 1877 A, 121, 166 (Mycteria).
Ridgway, R. 1887 A, 125, pl. xxxii (Jabiru).
Sellards, E. H. 1916 C, 146.
Sushkin, P. P. 1899 B, 153.
Wagner, J. A. 1837 B, 493, pl. iv, figs. 5-7 (Mycteria).

Jabiru mycteria (Lichtenstein).

Lichtenstein, M. H. C. 1819, Abh. k. Akad. Wiss., Berlin, phys. Kl., for 1816-17, 163 (Ciconia).
Allen, J. A. 1908 A, 38.
Hay, O. P. 1927 D, 185, 198.

Miller, L. H. 1910 A, 446.
1912 A, 78, 97, 113.
1921 A, 567 ("Jabiru").
1922 A, 123 (Ciconia maltha).
1925 A, 317.
1925 B, 74 (This species?).
Newton and Gadow 1896 A, 462, fig. (Mycteria americana).
Osborn, H. F. 1925 D, 542.
Wagner, J. A. 1837 B, 493, pl. iv, figs. 5-7 (Mycteria americana).
Wetmore, A. 1928 B, 2.
Recent; southern Mexico to Argentina: Pleistocene (La Brea); California.

Jabiru weillsi Sellards.

Sellards, E. H. 1916 C, 146, 148, pl. xxvi, figs. 1-4; text-fig. 15 (This genus ?).
Hay, O. P. 1923 A, 382.
Sellards, E. H. 1916 E, 23 (This genus ?).
1917 A, 249.
1917 C, 76.
1917 E, 198 ("stork").
Pleistocene (Early); Florida.

Jabiru sp. indet.

Hay, O. P. 1927 D, 198. Pleistocene; California.
Merriam and Stock 1925 B.

MYCTERIINÆ.

A. O. U. 1910 A, 93.
Wetmore and Miller 1926 A, 341.

MYCTERIA Linnæus. Type *M. americana* Linnæus.

Linnæus, C. 1758 A, 140.
A. O. U. 1910 A, 93.
Carus, J. V. 1875 A, 346.
Coues, E. 1884 A, 653.
Fürbringer, M. 1888 A, pl. ii.
Miller, L. H. 1925 B, 68, 90.
Newton and Gadow 1896 A, 1085 (Tantalus).
Reichenow, A. 1877 A, 121, 161 (Tantalus).
Stejneger, L. 1885 A, 164 (Tantalus).

Mycteria americana Linnæus.

Linnæus, C. 1758 A, 140.
Chandler, A. C. 1916 C, 318, pl. xx, fig. 23.
Coues, E. 1884 A, 653.
Hay, O. P. 1923 A, 382.
1927 D, 185.
Knowlton, F. H. 1909 B, 157, fig. 52.
Miller, L. H. 1912 A, 78, 97, 113.
1925 B, 73 (This species?).
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1916 E, 19 (This species?).
1917 B, 39, pl. ii, fig. 19 (This species?).
Recent; southern United States to Argentina. Pleistocene (LaBrea); California. (Early); Florida.

Superfamily PHŒNICOPTEROIDÆ, new form.

Hay, O. P. 1902 A, 531 (Phœnicopteroidea).
Chandler, A. C. 1916 C (Phœnicopteri).
Dabbene, R. 1910 A, 485 (Phœnicopteriformes).
Evans, A. H. 1899 A, 105 (Phœnicopteri).
Fürbringer, M. 1902 B, 637 (Phœnicopteri).
Gadow, H. 1893 A, 144 (Phœnicopteri).
1910 B, 977 (Phœnicopteri).
Huxley, T. H. 1867 A, 460 (Amphimorphæ).
1867 C, 278 (Amphimorphæ).
Knowlton, F. H. 1909 B, 165 (Phœnicopteri).
Lambrecht, K. 1914 A, 65 (Phœnicopteri).
Lebedinsky, N. G. 1913 A (Phœnicopteriformes).
Lydekker, R. 1879 A, 27 (Amphimorphæ).
Lydekker, R. 1891 A, 76 (Odontoglossæ).
Reichenow, A. 1913 A, 234 (Pelopatides).
Ridgway, R. 1887 A, 121 (Odontoglossæ).
Sharpe, R. B. 1891 A, 76 (Phœnicopteriformes).
Shufeldt, R. W. 1901 B, 295 (Odontoglossæ).
1904 B, 853 (Phœnicopteriformes, Phœnicopteri).
1909 A, 251 (Phœnicopteroideæ).
Steiner, H. 1916 A, 499 (Phœnicopteri).
1918 A, 317, 441, 490 (Phœnicopteri).
Sushkin, P. P. 1899 B, 153 (Phœnicopteri).
Wetmore and Miller 1926 A, 341 (Phœnicopteri).

PHŒNICOPTERIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 34.
Hay, O. P. 1902 A, 531.
Arldt, T. 1907 D, 673.
1912 A, 756.
Carus, V. 1875 A, 350.
Dabbene, R. 1910 A, 485.
Evans, A. H. 1899 A, 105.
Forbes, W. A. 1882 A, 389.
Garrod, A. H. 1873 D, 638.
Gervais, P. 1856 A, 12 ("flamants").
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 486.
Lobley, J. L. 1908 A, 202, 207.
Lydekker, R. 1879 A, 13.
1891 A, 77.
Reichenow, A. 1877 A, 113, 225.
1913 A, 235.
Ridgway, R. 1887 A, 121.
Shufeldt, R. W. 1901 B, 295.
1904 B, 853.
Wallace, A. R. 1876 A, II, 361.
Wetmore and Miller 1926 A, 341.
Young, G. W. 1915 A, 251 ("flamingoes").

PHŒNICOPTERUS Linnæus. Type *P. ruber* Linnæus.

Linnæus, C. 1758 A, 139.
Hay, O. P. 1902 A, 531.
Adolphi, H. 1922 A, 49.
Allen, J. A. 1893 B, 99.
Arldt, T. 1907 D, 673.
Beddard, F. E. 1898 A, 544.

Beebe, C. W. 1906 A, 489 ("flamingo").
Bignon, F. 1889 A.
Bronn, H. G. 1848 B, 960.
1849 A, 697.
Chandler, A. C. 1916 C.
Chapman, F. M. 1902 A, 573.
1905 A, figs. 1-16.
Cuvier, G. 1805 A (Phenicopterus).
Dabbene, R. 1910 A, 130, 234.
Diethelm, M. 1907 A, 41.
Evans, A. H. 1899 A, 105.
Eyton, T. C. 1867 A, 197, pl. iv K (Phænicopterus).
Fürbringer, M. 1888 A, pls. ii-iv, vi, vii.
1902 B, 637.
Gadow, H. 1893 A, 144.
Gegenbaur, C. 1871 A, 173.
Gervais, P. 1852 A, 233, pl. L, figs. 4, 5.
1859 A, 413.
Giebel, C. G. 1855 B, 30 ("flamingo").
Heilprin, A. 1887 A, 418 ("flamingo").
Hesse, H. 1907 A, 213, pl. vi, fig. 1.
Huxley, T. H. 1867 A, 437.
1867 C, 257, 278, fig. 19.
Kessler, K. T. 1841 A, 658, 688.
Knowlton, F. H. 1909 B, 165.
Köstlin, O. 1844 A.
Lambrecht, K. 1914 A, 83, pl. viii.
Lebedinsky, N. G. 1921 A, 13.
Ledouble, A. F. 1903 A, 642 ("flamant").
Leunis and Ludwig 1883 A, 486.
Lüdher, W. 1871 A, 329.
Mackie, S. J. 1863 C, 108.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A.
Miller, L. H. 1912 A, 80.
Newton and Gadow 1896 A, 1078.
Owen, R. 1866 B, 16, fig. 14 (Phænicopterus).
1868 A, 899 (Phænicopterus).
Parker, W. K. 1875 A, 712.
Reichenow, A. 1877 A, 121, 227.
Ridgway, R. 1887 A, 121, pl. xxix.
Shufeldt, R. W. 1901 B, 295.
1909 A, 250, 251, 252.
Steiner, H. 1918 A, 318.
Sundevall, C. J. 1886 A, 400.
Taschenberg, O. 1899 A, 4229.
Virchow, H. 1916 B, 245, 5 figs.
Wagner, R. 1843 A ("flamingo").
Weitzel, A. 1865 A, 338.
Wray, R. S. 1887 A, 348.

Phœnicopterus copei Shufeldt.

Hay, O. P. 1902 A, 531.
Haug, E. 1911 A, 1886.
Hay, O. P. 1927 D, 244.
Lambrecht, K. 1916 C, 495.
1921 A, 22.
Miller, L. H. 1912 A, 81, 97, 113.
Osborn, H. F. 1910 B, 460.
Shufeldt, R. W. 1913 B, 152, 157.
Smith and Packard 1919 A, 103 ("flamingo").
Sternberg, C. H. 1909 C, 160.
Wetmore, A. 1928 A, 155.
Pleistocene (Fossil Lake); Oregon.

Superfamily PLATALEOIDÆ, new name.

Shufeldt, R. W. 1894 A, 23 (Plataleæ).

PLATALEIDÆ.

A. O. U. 1910 A, 91.
Coues, E. 1884 A, 651.
Eyton, T. C. 1867 A, 275, pls. xiv k, xxvii (Platalia).
Knowlton, F. H. 1909 A, 163.
Ridgway, R. 1887 A, 122.

AJAIA Reichenbach. Type *Platalea ajaja* Linnæus.

Reichenbach, H. G. 1852, Syst. Avium, xvi.
A. O. U. 1910 A, 91.
Coues, E. 1884 A, 651 (Ajaja).
Ridgway, R. 1887 A, 122, pl. xxxi (Ajaja).

Ajaia ajaja (Linnæus).

Linnæus, C. 1758 A, 140.
A. O. U. 1910 A, 91.
Coues, E. 1884 A, 651 (Ajaja ajaja).
Hay, O. P. 1927 D, 185.
Knowlton, F. H. 1909 A, 164, pl.
Miller, L. H. 1921 C, 130 (A. sp. indet).
1925 A, 72.
Recent; North and South America: Pleistocene; California.

Superfamily IBIDIDOIDÆ, new form.

A. O. U. 1910 A, 91 (Ibides).

IBIDIDÆ.

Abel, O. 1926 B, 239 ("ibisse").
A. O. U. 1910 A, 91.
Coues, E. 1884 A, 648.
Knowlton, F. H. 1909 A, 160.
Owen, R. 1866 B, 60 ("ibises").
Reichenow, A. 1913 A, 238.
Ridgway, R. 1887 A, 121, 123.
Selenka, E. 1869 A, pls. ii, xvii (Ibis).
Stejneger, L. 1885 A, 158.

PLEGADIS Kaup. Type *Tringa autumnalis* Linnæus.

Kaup, J. J. 1829, Skizz. Entw.-Gesch. Eur. Thierw., 82.
A. O. U. 1910 A, 92.
Coues, E. 1884 A, 649.
Reichenow, A. 1913 A, 243.
Ridgway, R. 1887 A, 123, pl. xxx.

Plegadis guarauna (Linnæus).

Linnæus, C. 1766, Syst. Nat., ed. 12, I, 242.
A. O. U. 1910 A, 92.
Coues, E. 1884 A, 649.
Hay, O. P. 1927 D, 185.
Knowlton, F. H. 1909 A, 163.
Miller, L. H. 1921 C, 130 (P. sp. indet.).
1925 A, 73.

Recent; Oregon to southern South America: Pleistocene; California.

Suborder ANATIFORMES, new name.

Unless otherwise indicated the authors, as quoted, use for this suborder the name Anseriformes.

Hay, O. P. 1902 A, 528 (Chenomorphæ).
Abel, O. 1919 A, 704.
Adolphi, H. 1922 A, 50.
Allen, J. A. 1871 A (Chenomorphæ).
A. O. U. 1910 A, 66 (Anseres).
Beddard, F. E. 1898 A, 456 (Anseres).
Bittner, F. 1912 A, 2 ("lamellirostres").
Blainville, H. M. D. 1821 A, 212 ("palmipèdes").
Bonaparte, C. L. 1831 A, 34 (Anseres).
1832 A, 311 (Lamellosodentati).
Carus, V. 1875 A, 347 (Lamellirostres).
Chandler, A. C. 1914 B, 141 (Anseres).
1916 C (Anseres).
Clark, H. L. 1901 A, 376 ("anseriforms").
Cope, E. D. 1891 N, 58, 60 (Chenomorpha).
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 468.
Evans, A. H. 1899 A, 108, 110 (Anseriformes, Anseres).
Finn, F. 1894 B, 454 (Anseres).
Fürbringer, M. 1888 A, 1548, 1565.
1902 B, 630 (Anseriformes, Anseres).
Gadow, H. 1893 A, 151.
1910 B, 977.
Garrod, A. H. 1874 A, 118.
Gegenbaur, C. 1871 A, 173 (Chenomorphæ).
Hilzheimer, M. 1913 A, 517 (Anseres).
Hoernes, R. 1886 A, 641 (Lamellirostres).
Huxley, T. H. 1867 A, 460 (Chenomorphæ).
1867 C, 227 (Chenomorphæ); 248 (Natatores).
1868 B, 361 (Chenomorphæ).
Illiger, C. 1811 A, 270 (Natatores); 276 (Lamellosodentata).
Kessler, K. T. 1841 A, 673 (Lamellirostres).
Knowlton, F. H. 1909 B, 169.
Lambrecht, K. 1914 A, 65, 73.
Lebedinsky, N. G. 1913 A, 694.
Leunis and Ludwig 1883 A, 484 (Lamellirostres).
Linnæus, C. 1758 A, 81, 122 (Anseres).
Lobley, J. L. 1908 A, 198 (Anseres).
Lühder, W. 1871 A, 324 (Lamellirostres).
Lydekker, R. 1879 A, 27 (Chenomorphæ).
1891 A, 97 (Anseres).
Meckel, J. F. 1825 A ("wasservögel").
Newton, A. 1885 A, 47 (Chenomorphæ).
Newton and Gadow 1896 A, 86, 134, 820 (Chenomorphæ); 1060 (Anseres).
Parker, W. K. 1875 A, 700, 712 (Chenomorphæ).
1888 D, 478 (Chenomorphæ).
Pycraft, W. P. 1910 A, 419 (Anseres).
Reichenow, A. 1913 A, 130 (Lamellirostres).
Ridgway, R. 1887 A, 84 (Anseres).
Sclater, P. L. 1858 A (Anseres).
Selenka, E. 1869 A (Natatores).
Sharpe, R. B. 1891 A, 76.
Shufeldt, R. W. 1904 B, 853 (Anseriformes, Anseres).
1904 C, 315 (Anseres).
1909 A, 371 (Chenomorphæ).
1914 C (Anseres).
1916 C, 345 (Anseres).
Steiner, H. 1916 A, 493, 499 (Lamellirostres).
1918 A, 321, 490.
1922 A, 310, 327 (Anseres).
Sushkin, P. P. 1899 B, 153 (Anseres).
Vialleton, L. 1916 A, 6.
Virchow, H. 1921 A, 136, fig. 2 ("gans").
Wallace, A. R. 1876 A, I, 490; II, 560 (Anseres).
Weitzel, A. 1865 A, 346 ("schwimmvögel").
Wetmore, A. 1917 A, 556 (Anseres).
Wetmore and Miller 1926 A, 341.
Wray, R. S. 1887 A, 348 (Anseres).
Zittel and Lucas 1902 A, 273 (Chenomorphæ).
Zittel and Schlosser 1911 A, 323 (Chenomorphæ).

Superfamily ANATOIDÆ, new form.

Hay, O. P. 1902 A, 529 (Anatoidea).
Gadow, H. 1893 A, 154 (Anseres).
1910 B, 977 (Anseres).
Garrod, A. H. 1874 A, 116 (Anseres).
Knowlton, F. H. 1909 B, 172 (Anseres).
Köstlin, O. 1844 A ("schwimmvogel").
Lull, R. S. 1917 B, 322 (Anseres).
Pycraft, W. P. 1901 A, 351 (Anseres).
Sharpe, R. B. 1891 A, 76 (Anseres).
Wetmore and Miller 1926 A, 341 (Anseres).

ANATIDÆ Vigors.

Vigors, N. A. 1825 A, 498.
Hay, O. P. 1902 A, 529.
Abel, O. 1912 F, 171.
Allen, J. A. 1871 A.
A. O. U. 1910 A, 66 (Anatidæ).

Arldt, T. 1907 D, 637.
1912 A, 686, 687 (Anseridæ); 710, 756 (Anatidæ).
Beebe, C. W. 1906 A, 487 ("ducks").
Bittner, F. 1912 A, 2, 8.
Bonaparte, C. L. 1831 A, 35.
Brandt, J. F. 1840 A, 170, 185 ("anatiden").
Carus, V. 1875 A, 351.
Dabbene, R. 1910 A, 468.
Evans, A. H. 1899 A, 108, 111.
Finn, F. 1894 A, 210.
Fürbringer, M. 1888 A.
1902 B, 630.
Gadow, H. 1893 A, 155.
1912 B, 210 ("ducks").
Garrod, A. H. 1874 A, 116, 122.
Gegenbaur, C. 1871 A, 179 ("anatiden").
Giebel, C. G. 1855 B, 32 ("enten").
Grote, H. 1902 A, 60 ("schwimmvögel").
Heilmann, G. 1926 A, 102 ("ducks," "geese").
Hesse, H. 1907 A, 203.
Jacquemin, E. 1837 A, 591 ("canards").
Knowlton, F. H. 1909 B, 172.
Leunis and Ludwig 1883 A, 491.
L'Herminier, F. 1836 A, 111 ("canards").
Lobley, J. L. 1908 A, 202, 207.
Lühder, W. 1871 A, 323.
Lydekker, R. 1879 A, 13.
1891 A, 98.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A ("enten").
Miller, L. H. 1925 B, 72.
Miller, W. D. 1924 A, 1 (Anseres).
Owen, R. 1866 B, 26, 61 (Lamellirostrata).
Parker, W. K. 1875 D, 128 ("geese").
1888 D, 477.
1890 A, 1.
Pycraft, W. P. 1906 A, 397 ("geese," "ducks)
1910 A, 50, 402, 450.
Reichenow, A. 1913 A, 133.
Ridgway, R. 1887 A, 84.
Seeley, H. G. 1872 A, 276 ("ducks").
Shufeldt, R. W. 1904 B, 853.
1904 C, 315.
1909 A, 369.
1914 C.
Sieglbauer, F. 1911 A, 267.
Steiner, H. 1918 A, 441, 490 (Anseres).
Sundevall, C. J. 1886 A, 404 (Anates).
Wagner, R. 1843 A ("enten").
Wallace, A. R. 1876 A, II, 363.
Wetmore and Miller 1926 A, 341.

CYGNINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 119.
A. O. U. 1910 A, 89.
Knowlton, F. H. 1909 B, 172.
Lydekker, R. 1891 A, 107.
Oberholser, H. C. 1908 A, 1.
Reichenow, A. 1913 A, 162 (Cygnidæ).
Shufeldt, R. W. 1914 C.
Wetmore and Miller 1926 A, 341.

CYGNUS Bechstein. Type *Cygnus musicus* Bechstein = *Anas cygnus* Linnæus.

Bechstein, J. M. 1803, Ornith. Taschenb. Deutschl., II.
Hay, O. P. 1902 A, 530 (Olor).
Abel, O. 1912 F, 171.
Adolphi, H. 1922 A, 16, 51, figs. 4, 22, 24, 25 (Olor).
Allen, J. A. 1893 B, 99 (Olor).
A. O. U. 1910 A, 89 (Olor).
Arldt, T. 1907 D, 649.
Beddard, F. E. 1898 A, 462, 466.
Beebe, C. W. 1906 A, 494 ("swans").
Bignon, F. 1889 A.
Bittner, F. 1912 A, 8.
Bonsdorff, E. J. 1871 A, 310.
Brit. Ornith. Union Comm. List of Brit. Birds, ed. 2. 1915, 382.
Bronn, H. G. 1849 A, 696.
Chandler, A. C. 1916 C, 329 (Olor).
Eimer, G. H. T. 1901 A, 207, 231.
Evans, A. H. 1899 A, 135.
Eyton, T. C. 1867 A, 205 (Cygnus).
1869 A, pls. i, iv.
Foote, J. S. 1916 A, 71, pl. vii (Olor).
Fürbringer, M. 1888 A, pls. ii-v, vii.
Gegenbaur, C. 1871 A, 179.
Giebel, C. G. 1855 B, 31 ("schwann").
Harting, P. 1866 A, 24.
Heilmann, G. 1913 B, 29, fig. 74.
1926 A, 207, fig. 131 ("swan").
Heinroth, O. 1923 A, 279, pl. v.
Hesse, H. 1907 A, 204, pl. vii, fig. 4.
Kessler, K. T. 1841 A, 675, 690.
Kingsbury, B. F. 1926 A, 103.
Knowlton, F. H. 1909 B, 172.
Köstlin, O. 1844 A.
Lambrecht, K. 1914 A, 65.
Lebedinsky, N. G. 1918 B, 136, fig. 3 (Olor).
Leunis and Ludwig 1883 A, 487.
Lilienthal, G. 1917 A, 271 ("schwan").
Lüdher, W. 1871 A, 329.
Lydekker, R. 1891 A, 107.
Mackie, S. J. 1863 C, 109.
Magnan, A. 1922 A, 170, pl. x.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A.
Newton and Gadow 1896 A, 1065.
Nitzsch, C. L. 1862 B, 408.
Oberholser, H. C. 1908 A, 2 (Olor).
Owen, R. 1866 B, fig. 101 ("swans").
1868 A, 875.
Parker, W. K. 1875 A, 719.
1888 D, 466, 478.
1890 A, 4, pls. ii-v.
Pycraft, W. P. 1906 A, 402.
Reichenow, A. 1913 A, 163.
Ridgway, R. 1887 A, 88, 120, pl. xxix (Olor).
Selenka, E. 1869 A, pls. x, xvii.
Shufeldt, R. W. 1909 A, 378 (Olor).
1914 C, 38, 40 (Olor).
1916 C, 346 (Olor).
Sieglbaur, F. 1911 A, 267.
Steiner, H. 1918 A, 325, 490.
Sundevall, C. J. 1886 A, 401, 410.
Sushkin, P. P. 1899 B, 153 (Olor).
Taschenberg, O. 1899 A, 4028.
Wagner, J. G. 1832, Isis, xxv, 1234 (Olor).
Weitzel, A. 1865 A, 342.

Cygnus buccinator Richardson.

Richardson, J. 1831 (1832), Fauna Bor.-Amer., 464.
A. O. U. 1910 A, 89 (Olor).
Fürbringer, M. 1888 A.
Oberholser, H. C. 1908 A, 3 (Olor, subgenus Clangocicnus).
Shufeldt, R. W. 1909 A, 311, 331, 335 (Olor).
1913 A, 39 (Olor).
1913 B, 150; pl. xxvi, figs. 315, 317, 318; pl. xxxiv, fig. 419; pl. xxxv, figs. 423, 424; pl. xxxvi, fig. 430; pl. xxxvii, figs. 433-436 (Olor).
1913 F, 307 (Olor).
1914 C, 31, 32 (Olor).
Wyman, J. 1843 A, 119.
Recent; interior and western North America: Pleistocene (Fossil Lake); Oregon.

Cygnus columbianus (Ord).

Ord, G. 1815, Guthrie's Geogr., 2d Amer. ed., 319 (Anas).
Miller, L. H. 1924 B, 180, fig. 2.
1925 B, 73 (Olor).
Oberholser, H. C. 1908 A, 4 (Olor).
Shufeldt, R. W. 1913 B, 150, 172, pl. xxxvi, fig. 429; pl. xxxvii, figs. 437, 438 (Olor americanus).
1913 F, 307 (Olor).
1914 C, pl. vii (Olor).
Recent: North America: Pleistocene (Fossil Lake); Oregon.

Cygnus matthewi (Shufeldt).

Shufeldt, R. W. 1913 B, 145, 151, pl. xxvi, fig. 309; pl. xxxv, fig. 422 (Olor).
Lambrecht, K. 1921 A, 11 (Olor).
Shufeldt, R. W. 1893 C, 683, fig. 2 (Olor paloregonus).
1913 F, 307 (Olor).
Pleistocene (Fossil Lake); Oregon.

Cygnus paloregonus Cope.

Hay, O. P. 1902 A, 530 (Olor).
1923 A, 8 (Olor).
1927 D, 244. 266, 267 (Olor); 266, 267 (Olor palæocygnus); 268 (Cygnus paloregonus).
Lambrecht, K. 1916 C, 494.
1921 A, 11 (Olor).
Lindgren and Drake 1904 A, 3 (Olor palæocygnus. This species?).
Lucas, F. A. 1900 H, 99 (Olor paleocygnus. This species?).
1904 F, 3 (Olor paleocygnus. This species?).
Merriam, J. C. 1917 A, 432 (Olor palæocygnus).
Miller, L. H. 1912 A, 81, 112 (Olor).
Oberholser, H. C. 1908 A, 3 (Olor).
Osborn, H. F. 1910 B, 460.
Shufeldt, R. W. 1893 E, 683, fig. 2 (Olor).
1909 A, 335 (Olor).
1913 A, 37 (Olor).
1913 B, 145, 149, pl. xix, fig. 257; pl. xxvi, figs. 310, 316; pl. xxxiv, fig. 420; pl. xxxv, figs. 421, 425; pl. xxxvi, fig. 431 (Olor).
1916 C, 346 (Olor).
Pleistocene (Fossil Lake); Oregon: (Idaho); Idaho.

Cygnus sp. indet.

Hay, O. P. 1927 D, 71, 191 (Cygnus); 75 (Olor); 245 ("swan").
Pleistocene; California, Idaho, Oregon.

ANSERINÆ Swainson.

Swainson, W. 1837 A, 364.
Abel, O. 1926 B, 239 ("gänse").
A. O. U. 1910 A, 83.
Arldt, T. 1907 D, 56, 87.
Evans, A. H. 1899 A, 131.
Fürbringer, M. 1888 A, 52, 54, 61 (Anseres).
Knowlton, F. H. 1909 B, 177.
Leunis and Ludwig 1883 A, 848 (Anseridæ).
Lydekker, R. 1891 A, 103.
Reichenow, A. 1913 A, 157 (Anseridæ).
Ridgway, R. 1887 A, 87.
Shufeldt, R. W. 1914 C.
Sieglbauer, F. 1911 A, 267.
Wetmore and Miller 1926 A, 341.

LAORNIS Marsh. Type *L. edvardsianus* Marsh.

Hay, O. P. 1902 A, 531.
Fürbringer, M. 1888 A, 1141.
1902 B, 629.
Heilprin, A. 1887 A, 330.
Lambrecht, K. 1916 C, 493.
Newton and Gadow 1896 A, 281.
Van den Broeck, E. 1900 A, 77.
Wallace, A. R. 1876 A, I, 164.
Zittel and Schlosser 1911 A, 323.
1923 A, 399.

Laornis edvardsianus Marsh.

Hay, O. P. 1902 A, 531.
Delafontaine, M. 1875 A. 176 (L. edwardianus).
Lambrecht, K. 1921 A, 65 (L. edwardsianus).
Shufeldt, R. W. 1915 D, 21, 76, pl. ii, fig. 10.
Wetmore, A. 1928 A, 150.
Upper Cretaceous (Navesink-Hornerstown): New Jersey.

BRANTA Scopoli. Type *Anas bernicla* Linnæus.

Scopoli, G. A. 1769. Annus I. Hist. Nat., 67.
Hay, O. P. 1902 A, 530.
Adolphi, H. 1922 A, 58 (Bernicla).
Allen, J. A. 1893 B, 99.
Beddard, F. E. 1898 A, 57, 468 (Bernicla).
Chandler, A. C. 1916 C, 328.
Evans, A. H. 1899 A, 131 (Bernicla).
Foote, J. S. 1916 A. 73 (Bernicla).
Fürbringer, M. 1888 A, 150, pls. i, v, vii (Bernicla).
Heilmann, G. 1915 A, 97.
Hesse, H. 1907 A, 206.
Knowlton, F. H. 1909 B, 180.
Leunis and Ludwig 1883 A, 489 (Bernicla).

Magnan, A. 1922 A, 170.
Miller, L. H. 1924 B, 179.
Ridgway, R. 1887 A, 87, 116, pl. xxviii.
Shufeldt, R. W. 1901 B, 315 (Bernicla).
1909 A, 370.
1914 C.
1916 C, 346.

Branta bernicla glaucogastra (Brehm).

Brehm, C. L. 1831, Handb. Vögel Deutschl., 849.
Miller, L. H. 1924 B, 178 (B. bernicla).
Shufeldt, R. W. 1913 A, 39 (B. bernicla).
1913 B, 147, 150, pl. xxxii, figs. 400-402, 404.
1913 F, 307 (B. bernicla).
Recent; Northern Hemisphere: Pleistocene (Fossil Lake); Oregon.

Branta canadensis (Linnæus).

Linnæus, C. 1758 A, 123 (Anas).
Hay, O. P. 1902 A, 530.
Abel, O. 1912 F, 22.
Beebe, C. W. 1906 A, 490 ("Canada goose").
Evans, A. H. 1899 A, 131 (Bernicla).
Foote, J. S. 1916 A, 73, pl. vii (Bernicla).
Hay, O. P. 1927 D, 172, 186, 244.
Knowlton, F. H. 1909 B, 181, fig. 59.
Miller, L. H. 1909 B, 306.
1911 C, 396, 400.
1912 A, 71, 78, 81, 112.
1914 A, 36.
1921 C, 129.
1924 B, 179.
1925 B, 72.
1928 A, 120.
Osborn, H. F. 1910 B, 473.
1925 D, 542.
Shufeldt, R. W. 1909 A, 370, figs. 33, 38, 42.
1913 B, 146, 148, pl. xxv, figs. 304, 305; pl. xxviii; pl. xxxiii, figs. 412, 413, 415; pl. xxxiv, fig. 418; pl. xxxvi, fig. 428.
1914 C, pls. iv, v, x.
1915 D, 64, pl. xiii, figs. 99, 100.
Recent; North America: Pleistocene; California, Oregon.

Branta canadensis hutchinsi (Richardson).

Richardson, J. 1831 (1832) Fauna Bor. Amer., 470 (Anser hutchinsi).
Coues, E. 1884 A, 689 (Bernicla).
Knowlton, F. H. 1909 B, 181.
Shufeldt, R. W. 1913 A, 39 (B. hutchinsi).
1913 B, 147, pl. xxxiii, fig. 414.
1913 F, 307 (This subspecies?).
1914 C, pl. v.
Recent; western North America: Pleistocene (Caves); California: (Fossil Lake); Oregon.

Branta canadensis minima Ridgway.

Ridgway, R. 1885, Proc. U. S. Nat. Mus., VIII, 22 (B. minima).
Miller, L. H. 1925 B, 72.
Shufeldt, R. W. 1913 A, 39.
1913 B, 174, pl. xxxviii, figs. 464, 465.
1913 F, 307 (This subspecies?).
Recent; western North America: Pleistocene (Fossil Lake?); Oregon.

Branta dickeyi Miller.

Miller, L. H. 1924 B, 179, figs. 1, 2.
Hay, O. P. 1927 D, 198.
Miller, L. H. 1925 A, 316, figs. 1, 2.
Osborn, H. F. 1925 D, 542.
Pleistocene (McKittrick); California.

Branta hypsibata (Cope).

Hay, O. P. 1902 A, 530.
1927 D, 244.
Lambrecht, K. 1921 A, 13 (B. hypsibatus).
Miller, L. H. 1912 A, 81, 112.
1924 B, 178.
Shufeldt, R. W. 1913 B, 125 (Anser); 147, 156, pl. ix, fig. 5; pl. xxv, figs. 298, 299; pl. xxvii (Branta).
Pleistocene (Fossil Lake); Oregon.

Branta minuscula Wetmore.

Wetmore, A. 1924 A, 6, fig. 3.
Hay, O. P. 1927 D, 136.
Miller, L. H. 1924 B, 178 (B. meniscula).
Wetmore, A. 1928 A, 154.
Pliocene? (San Pedro Valley); Arizona.

Branta propinqua Shufeldt.

Hay, O. P. 1902 A, 530.
1927 D, 244.
Lambrecht, K. 1921 A, 13.
Miller, L. H. 1912 A, 81, 112.
Shufeldt, R. W. 1913 B, 148, pl. xxix.
1914 C, pl. ii.
Pleistocene (Fossil Lake); Oregon.

Branta sp. indet.

Gidley, J. W. 1922 B, 120. Pliocene? (San Pedro Valley); Arizona.
Hay, O. P. 1927 D, 186. Pleistocene; California.
Merriam, J. C. 1911 B, 211, 212, 234, fig. 3.
1917 A, 429. Pliocene (Thousand Creek); Nevada.
Miller, L. H. 1910 C, 11. Pleistocene (La Brea); California.
Wetmore, A. 1923 A, 489 (This genus?). Upper Miocene (Lower Snake Creek); Nebraska.

ANSER Brisson. Type *Anas anser* Linnæus.

Brisson, M. J. 1760, Ornith., VI, 261.
Hay, O. P. 1902 A, 530.
Adolphi, H. 1922 A, 60.
Allen, J. A. 1893 B, 99.
A. O. U. 1910 A, 84.
Arldt, T. 1907 D, 87, 156.
Bignon, F. 1889 A.
Bittner, F. 1912 A, 8.
Bonsdorff, E. J. 1871 A, 310.
Bronn, H. G. 1849 A, 696.
Eimer, G. H. T. 1901 A, 207, 231.
Engelmann, O. 1910 A, 487.
Eyton, T. C. 1867 A, 205.
1869 A, pl. iii.
Fürbringer, M. 1888 A.
Gaupp, E. 1908 B, 528.

Gegenbaur, C. 1871 A, 173 ("gans").
Harting, P. 1866 A, 24.
Heilmann, G. 1926 A, 203, fig. 3.
Kessler, K. T. 1841 A, 675, 690.
Kingsbury, B. F. 1926 A, 103.
Knowlton, F. H. 1909 B, 178.
Krukenberg, A. 1849 A, 413 ("gans").
Lambrecht, K. 1914 A, 65, pl. viii.
Lebedinsky, N. G. 1921 A, 13.
Leunis and Ludwig 1883 A, 488.
Lilienthal, G. 1917 A, 271 ("gans").
Lydekker, R. 1879 A, 36, pl. iv, fig. 2.
Mackie, S. J. 1863 C, 109.
Magnan, A. 1922 A, 170, pls. v, xi, xiii, xiv.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A ("gänse").
Miller, L. H. 1924 B, 180.
Miller, W. D. 1924 A, 5, fig. 7.
Nitzsch, C. L. 1862 B, 412.
Norsa, E. 1895 A, 234.
Owen, R. 1848 B, 184.
1868 A, 860.
Parker, W. K. 1890 A, 16, pl. i.
Prein, F. 1914 A, 678.
Reichenow, A. 1913 A, 158.
Ridgway, R. 1887 A, 87, 115, pl. xxviii.
Shufeldt, R. W. 1909 A, 369.
1914 C.
Steiner, H. 1921 A, 538.
1922 A, 310, 317, figs. 4-8.
Sundevall, C. J. 1886 A, 405.
Szalay, E. L. 1902 A, 12, pls. i-iii.
Virchow, H. 1919 A, 326, fig. 11 ("gans").
Vitali, G. 1909 A, 214.
Weitzel, A. 1865 A, 341.

Anser albifrons gambelli Hartlaub.

Hartlaub, C. J. G. 1852, Revue et Mag. Zool., 7 (A. gambelli).
Hay, O. P. 1902 A, 530 (A. albifrons).
Coues, E. 1884 A, 684.
Hay, O. P. 1927 D, 172, 186 (A. albifrons); 244 (A. gambelli).
Knowlton, F. H. 1909 B, 178 (A. albifrons).
Miller, L. H. 1912 A, 78, 81, 112.
1914 A, 36 (A. albifrons).
1928 A, 120 (A. albifrons).
Osborn, H. F. 1925 D, 542 (A. albifrons?).
Shufeldt, R. W. 1909 A, 369 (A. albifrons).
1913 B, 144, 146, pl. xxiv, figs. 290, 291, 293, 295; pl. xxv, fig. 303; pl. xxxii, figs. 408-411.
1914 C, 32, pls. v, xi.

The subspecific name is usually spelled *gambeli.*

Recent; Central and western North America: Pleistocene (Fossil Lake); Oregon; (La Brea, San Pedro); California.

Anser condoni Shufeldt.

Hay, O. P. 1902 A, 530.
Haug, E. 1911 A, 1886.
Hay, O. P. 1927 D, 244.
Lambrecht, K. 1921 A, 12.
Miller, L. H. 1912 A, 81, 112.
Osborn, H. F. 1910 B, 460.
Shufeldt, R. W. 1909 A, 335.
1913 B, 125, 145, pl. ix, fig. 3.
1916 C, 346.

Pleistocene (Fossil Lake); Oregon.

Anser sp. indet.

Miller, L. H. 1910 C, 11. Pleistocene (La Brea); California.

CHEN Boie. Type *Anser hyperboreus* Pallas.

Boie, F. 1822, Isis, x, 563.
Hay, O. P. 1902 A, 530.
A. O. U. 1910 A, 83.
Beddard, F. E. 1898 A, 467.
Chandler, A. C. 1916 C, 328.
Knowlton, F. H. 1909 B, 179.
Miller, L. H. 1925 A, 315.
Newton and Gadow 1896 A, 300, 374, 1026.
Ridgway, R. 1887 A, 87, 114, pl. xxviii.
Shufeldt, R. W. 1909 A, 371.
1914 C.

Chen cærulescens (Linnæus).

Linnæus, C. 1758 A, 124.
A. O. U. 1910 A, 84.
Shufeldt, R. W. 1913 B, 145, pl. xxv, fig. 301; pl. xxvi, figs. 306, 307, 312; pl. xxxiv, fig. 416; pl. xxxvi, fig. 426 (C. cœrulescens).
1914 C, pl. x (C. cœrulescens).

Recent; Eastern North America: Pleistocene (Fossil Lake); Oregon.

Chen hyperboreus (Pallas).

Pallas, P. S. 1769, Spic. Zool., I, fasc. vi, 25 (Anas).
Hay, O. P. 1902 A, 530 (C. hyperborea).
A. O. U. 1910 A, 83.
Evans, A. H. 1899 A, 133.
Hay, O. P. 1927 D, 198, 244.
Miller, L. H. 1912 A, 81, 112 (C. hyperborea).
1928 A, 120.
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1909 A, 371.
1913 B, 125, 144, pl. ix, fig. 2; pl. xxiv, figs. 289, 292, 294, 296; pl. xxv, figs. 297, 300.
1914 C, 23, 32.

Recent; North America: Pleistocene (Fossil Lake); Oregon.

Chen hyperboreus nivalis (J. R. Forster).

Forster, J. R. 1772, Philos. Trans., LXII, 433 (Anas nivalis).
A. O. U. 1910 A, 83.
Knowlton, F. H. 1909 B, 179, fig. 58.
Shufeldt, R. W. 1913 B, 145, pl. xxv, fig. 302; pl. xxvi, figs. 308, 311, 314; pl. xxxiv, fig. 417; pl. xxxvi, fig. 427.

Recent; North America: Pleistocene (Fossil Lake); Oregon.

DENDROCYGNINÆ Shufeldt.

Shufeldt, R. W. 1914 C, 60.
Wetmore and Miller 1926 A, 341.

DENDROCYGNA Swainson. Type *Anas arcuata* Horsfield.

Swainson, W. 1837 A, 365.
Knowlton, F. H. 1909 B, 183.
Reichenow, A. 1913 A, 154.
Ridgway, R. 1887 A, 87, 118, pl. xxv.
Shufeldt, R. W. 1914 C, 1-70, pls. i-iv, viii, x, xvi.
Wetmore, A. 1924 A, 3.

Dendrocygna eversa Wetmore.

Wetmore, A. 1924 A, 3, 5, figs. 1, 2.
Gidley, J. W. 1922 B, 120 (D. n. sp.).
Hay, O. P. 1927 D, 136.
Wetmore, A. 1928 A, 154.
Pliocene? (San Pedro Valley); Arizona.

ANATINÆ Swainson.

Swainson, W. 1837 A, 366.
Abel, O. 1926 B, 239 ("enten").
A. O. U. 1910 A, 68.
Evans, A. H. 1899 A, 123.
Fürbringer, M. 1888 A.
Knowlton, F. H. 1909 B, 183 ("ducks").
Lydekker, R. 1891 A, 111.
Reichenow, A. 1913 A, 142.
Ridgway, R. 1887 A, 84.
Shufeldt, R. W. 1914 C.
Wetmore and Miller 1926 A, 341.

ANAS Linnæus. Type *A. boschas* Linnæus = *A. platyrhynchos* Linnæus.

Linnæus, C. 1758 A, 122.
Hay, O. P. 1902 A, 529.
Adolphi, H. 1922 A, 64, figs. 26, 27.
Aeby, C. 1873 A, 701.
Allen, J. A. 1893 B, 99.
A. O. U. 1910 A, 68.
Arldt, T. 1907 D, 637.
Beddard, F. E. 1898 A, 75, 460.
Beecker, A. 1903 A, 583.
Bignon, F. 1889 A.
Bittner, F. 1912 A, 6.
Bonsdorff, E. J. 1871 A, 310.
Bronn, H. G. 1849 A, 696.
Chandler, A. C. 1916 C, 329.
Cuvier, G. 1805 A.
Diethelm, M. 1907 A, 41.
Döderlein, L. 1923 A, 142, 162.
Dollo, L. 1906 C, 9, fig. 3.
Foote, J. S. 1916 A, 69, pl. 6.
1921 A, 8, pl. ii, fig. 15.
Fürbringer, M. 1888 A, pl. ii.
Gaupp, E. 1905 D, 1029, figs. 45, 46.
Gegenbaur, C. 1871 A, 173.
Geoffroy St. Hilaire, E. F. 1832 A, 354 ("canard").
Giebel, C. G. 1855 B, 31.
Heilmann, G. 1926 A, 204 ("duck").
Hesse, H. 1907 A, 206, pl. vii, fig. 5.
Hommes, J. H. 1924 A, 14, figs. 1, 3, 5-7.
Huxley, T. H. 1867 A, 436, fig. 18 (Querquedula).
Kessler, K. T. 1841 A, 675, 690.
Kingsbury, B. F. 1926 A, 103.
Kingsley, J. S. 1925 A, 175, fig. 189 ("duck").
Knopfli, W. 1917 A, 50.
Knowlton, F. H. 1909 B, 185.
Köstlin, O. 1844 A.
Kulczycki, W. 1901 A, 577.
Lambrecht, K. 1914 A, 65.
Lapicque and Girard 1907 A, 1017.
Lebedinsky, N. G. 1913 B, 193.
1917 A, 322, 326, figs. 5, 6.
1918 B, 133.
1921 A, 9, fig. 1.
Leunis and Ludwig 1883 A, 491.
Lydekker, R. 1891 A, 114.
Mackie, S. J. 1863 C, 109.
Magnan, A. 1922 A, 170, pl. xi.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A.
Mehnert, E. 1887 B, 213.
Nauck, E. T. 1926 B, 40, figs. 8, 9.
Newton and Gadow 1896 A, 1060.
Nitzsch, C. L. 1862 B, 414.
Noordenbos, W. 1905 B, 376.
Norsa, E. 1895 A, 234.
Owen, R. 1866 B, 32, fig. 22.
1868 A, 860.
Parker, W. K. 1890 A, 31, pls. i, ii.
Parker and Haswell 1897 A, 401, fig. 1005.
Prein, F. 1914 A, 678.
Pycraft, W. P. 1906 A, 399.
Reichenow, A. 1913 A, 145.
Reynolds, S. H. 1897 A, 304-327 (Anas); 539, figs. 56-61 ("duck").
Ridgway, R. 1887 A, 84, 90, pls. xxii, xxiii.
Sedgwick, A. 1894 A, 43 ("duck").
Shufeldt, R. W. 1909 A, 369.
1914 C.
Sieglbauer, F. 1911 A, 268.
Sippel, W. 1907 A, 519 ("ente").
Sonies, F. 1907 A, 395 ("enten").
Steiner, H. 1921 A, 538.
Sundevall, C. J. 1886 A, 405.
Wallace, A. R. 1876 A, II, 363.
Weitzel, A. 1865 A, 342.

Anas platyrhynchos Linnæus.

Linnæus, C. 1758 A, 125.
Hay, O. P. 1902 A, 529 (A. boschas).
A. O. U. 1910 A, 68.
Evans, A. H. 1899 A, 127 (A. boschas).
Eyton, T. C. 1867 A, 207 (A. boschas).
1869 A, pl. ix (A. boschas).
Foote, J. S. 1916 A, 69, pl. vi (A. boscas).
Hay, O. P. 1927 D, 172, 186, 198, 244.
Knopfli, W. 1917 A, 50 (A. boscas).
Knowlton, F. H. 1909 B, 185, fig. 61 (A. boscas).
Lebedinsky, N. G. 1918 B, 132, fig. 2 (A. boschas).
Lydekker, R. 1891 A, 114 (A. boscas).

Miller, L. H. 1912 A, 80, 112.
1914 A, 35.
1925 A, 313.
1925 B, 72 (This species?).
1927 A, 156 (This species?).
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1913 B, 170, pl. xxxi, figs. 386, 387.
Shufeldt, R. W. 1914 C, pl. vi, fig. 36.
Steiner, H. 1922 A, 313, figs. 1, 2 (A. boschas).
Wetmore, A. 1928 B, 3 (A. platyrhyncha).

Recent; northern hemisphere: Pleistocene (Fossil Lake); Oregon: (San Pedro, La Brea, McKittrick); California.

CHAULELASMUS Bonaparte. Type *Anas strepera* Linnæus.

Bonaparte, C. L. 1838, Geogr. and Comp. List, 56.
A. O. U. 1910 A, 69.
Coues, E. 1884 A, 693.
Shufeldt, R. W. 1914 C, 12.

Chaulelasmus streperus (Linnæus).

Linnæus, C. 1758, Syst. Nat., ed. 10, I, 125 (Anas).
A. O. U. 1910 A, 69.
Coues, E. 1884 A, 693.
Hay, O. P. 1927 D, 186.
Miller, L. H. 1912 A, 78, 112.
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1892 D, 406 (Anas).
1913 B, 143 (Anas).
1914 C, pl. vi.

Recent; nearly cosmopolitan: Pleistocene (La Brea); California: (Fossil Lake); Oregon.

MARECA Stephens. Type *Anas penelope* Linnæus.

Stephens, J. F. 1824, Gen. Zool., XII, pt. ii, 130.
Hay, O. P. 1902 A, 529 (Anas, in part).
A. O. U. 1910 A, 69.
Chandler, A. C. 1916 C, 329.
Coues, E. 1884 A, 693.
Parker, W. K. 1875 A, 712.

Mareca americana (Gmelin).

Gmelin, J. F. 1789, Syst. Nat., I, II, 526 (Anas).
Hay, O. P. 1902 A, 529 (Anas).
A. O. U. 1910 A, 70.
Hay, O. P. 1927 D, 198, 244.
Miller, L. H. 1912 A, 80, 112.
1925 A, 313.
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1909 A, 272.
1913 B, 156.
1914 C, 16.

Recent; North America: Pleistocene (Fossil Lake); Oregon.

DAFILA Stephens. Type *Anas acuta* Linnæus.

Stephens, J. F. 1824, Gen. Zool. XII, pt. ii, 126.
Hay, O. P. 1902 A, 529.
Allen, J. A. 1893 B, 107.
A. O. U. 1910 A, 72.
Arldt, T. 1907 D, 87, 156.
Dabbene, R. 1910 A, 231.
Knowlton, F. H. 1909 B, 187.
Newton and Gadow 1896 A, 109, 726.
Ridgway, R. 1887 A, 85, 97, pl. xxiii.
Shufeldt, R. W. 1909 A, 373.

Dafila acuta (Linnæus).

Linnæus, C. 1758 A, 126 (Anas).
Hay, O. P. 1902 A, 529.
Evans, A. H. 1899 A, 125.
Eyton, T. C. 1867 A, 208.
Hay, O. P. 1927 D, 198, 244.
Knowlton, F. H. 1909 B, 187, fig. 188.
Miller, L. H. 1912 A, 80, 112.
1925 A, 314.
Osborn, H. F. 1925 D, 542 (This species?).
Shufeldt, R. W. 1909 A, 373.
1913 B, 175, pl. xxxix, figs. 478, 479.
1914 C, 18.

Recent; whole northern hemisphere; Pleistocene (Fossil Lake); Oregon.

NETTION Kaup. Type *Anas crecca* Linnæus.

Kaup, J. J. 1829, Skizz. Entw.-Gesch. europ. Thierw., 95.
Hay, O. P. 1902 A, 529 (Anas, in part).
A. O. U. 1910 A, 70.
Miller, L. H. 1914 A, 35.

Nettion carolinense (Gmelin).

Gmelin, J. F. 1789, Syst. Nat. I, II, 533 (Anas).
Hay, O. P. 1902 A, 529 (Anas).
1927 D, 309.
Miller, L. H. 1912 A, 75, 80, 112.
Miller, L. H. 1914 A, 35.
1916 D, 173 (This species?).
1925 A, 313.
1925 B, 72 (This species?).
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1913 B, 146.
1914 C, pl. vi.

Recent; North America: Pleistocene (Hawver Cave); California: (Fossil Lake); Oregon: ?Miocene (Cedar Mountain); California.

QUERQUEDULA Oken. Type *Anas querquedula* Linnæus.

Oken, L. 1817, Isis, I, 1183.
Hay, O. P. 1902 A, 529 (Anas, in part).
A. O. U. 1910 A, 71.
Arldt, T. 1907 D, 678.
Beddard, F. E. 1898 A, 459, 467.
Chandler, A. C. 1916 C, 328.
Coues, E. 1884 A, 694.
Dabbene, R. 1910 A, 70, 232, fig. 40.
Eyton, T. C. 1869 A, pls. viii, xviii.
Huxley, T. H. 1867 C, 256, fig. 18.
Magnan, A. 1922 A, 170.
Newton and Gadow 1896 A, 297, 309, 983.
Parker, W. K. 1875 A, 712.
Shufeldt, R. W. 1914 C, 16.
Wetmore, A. 1924 A, 3.

Querquedula cyanoptera (Vieillot).

Vieillot, L. J. P. 1816, Nouv. Dict. d'Hist. Nat., v, 104.
Hay, O. P. 1902 A, 529 (Anas).
A. O. U. 1910 A, 71.
Hay, O. P. 1927 D, 172, 198, 244.
Miller, L. H. 1912 A, 80, 112.
1914 A, 36.
1916 D, 173 (This species?).
1925 A, 313.
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1913 B, 170, pl. xxxi, fig. 382.
Recent; South America, North America: Pleistocene (Fossil Lake); Oregon: (San Pedro beds); California: Upper Miocene (Cedar Mountain); California.

Querquedula discors Linnæus.

Linnæus, C. 1766, Syst. Nat., ed. 12, I, 205 (Anas).
Hay, O. P. 1902 A, 529 (Anas).
1927 D, 244.
Miller, L. H. 1912 A, 80, 112.
Shufeldt, R. W. 1913 B, 156.
1914 C, 32.
Recent; North America: Pleistocene (Fossil Lake); Oregon.

Querquedula floridana Shufeldt.

Shufeldt, R. W. 1917 B, 36, pl. i, fig. 4; pl. ii, fig. 25.
Hay, O. P. 1923 A, 382.
Shufeldt, R. W. 1916 E, 18 (No description).
Pleistocene (Middle?); Florida.

Querquedula sp. indet.

Hay, O. P. 1927 D, 136. Pleistocene or Pliocene; Arizona.
Wetmore, A. 1924 A, 3. Pliocene? (San Pedro Valley); Arizona.

SPATULA Boie. Type *Anas clypeata* Linnæus.

Boie, F. 1822, Isis, x, 564.
Hay, O. P. 1902 A, 529.
Allen, J. A. 1893 B, 99, 107.
A. O. U. 1910 A, 72.
Knowlton, F. H. 1909 B, 189.
Leunis and Ludwig 1883 A, 493.
Magnan, A. 1922 A, 170.
Ridgway, R. 1887 A, 85, 96, pl. xxiii.
Shufeldt, R. W. 1909 A, 380.

Spatula clypeata (Linnæus).

Linnæus, C. 1758 A, 124 (Anas).
Hay, O. P. 1902 A, 529.
A. O. U. 1910 A, 72.
Evans, A. H. 1899 A, 124.
Eyton, T. C. 1867 A, 209.
Hay, O. P. 1927 D, 198, 244.
Knowlton, F. H. 1909 B, 189.
Miller, L. H. 1912 A, 80, 112.
1925 A, 314.
Newton, E. T. 1891 A, 84, pl. ix, figs. 7*a*, 7*b*.
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1909 A, 380, figs. 13-16, 19, 21, 22, 24, 25.
1913 B, 156.
1914 C, 30, 32.
Recent; whole northern hemisphere: Pleistocene (Fossil Lake); Oregon.

AIX Boie. Type *Anas sponsa* Linnæus.

Boie, F. 1828, Isis von Oken, XXI, 329.
Hay, O. P. 1902 A, 529.
A. O. U. 1910 A, 73.
Arldt, T. 1907 D, 156, 211.
Eyton, T. C. 1867 A, 208.
Knowlton, F. H. 1909 B, 189.
Leunis and Ludwig 1883 A, 493.
Newton and Gadow 1896 A, 949.
Shufeldt, R. W. 1909 A, 369.
1914 C, 16, seq.
Wallace, A. R. 1876 A, II, 363.

Aix sponsa (Linnæus).

Linnæus, C. 1758 A, 128 (Anas).
Hay, O. P. 1902 A, 529.
A. O. U. 1910 A, 73.
Beddard, F. E. 1898 A, 535 (Aex).
Evans, A. H. 1899 A, 133 (Aex).
Eyton, T. C. 1869 A, pl. xviii.
Hay, O. P. 1927 D, 244.
Knowlton, F. H. 1909 B, 190, fig. 63, plate.
Miller, L. H. 1912 A, 80, 112.
Shufeldt, R. W. 1913 B, 156.
1914 C, pls. vi, xi, xiii.
Recent; North America: Pleistocene (Fossil Lake); Oregon.

FULIGULINÆ Swainson.

Swainson, W. 1837 A, 368.
A. O. U. 1910 A, 73.
Knowlton, F. H. 1909 B, 191.
Pycraft, W. P. 1906 A, 406.
Reichenow, A. 1913 A, 134.
Shufeldt, R. W. 1914 C, 41.

MARILA Oken. Type *Anas marila* Linnæus.

Oken, L. 1817, Isis, I, 1183.
Hay, O. P. 1902 A, 530 (Athya).
A. O. U. 1910 A, 74.
Chandler, A. C. 1916 C, 328.
Fürbringer, M. 1888 A, pl. ii (Fuligula).
Knowlton, F. H. 1909 B, 193 (Fuligula).
Leunis and Ludwig 1883 A (Fulix).
Newton and Gadow 1896 A, 1068 (Fuligula).
Ridgway, R. 1887 A, 85, 101, pl. xxiv (Athya).
Shufeldt, R. W. 1913 B, 141.

Marila affinis (Eyton).

Eyton, T. C. 1838, Monogr. Anatidæ, 157 (Fuligula).
A. O. U. 1910 A, 75.
Shufeldt, R. W. 1913 A, 39.
1913 B, 141, pl. xxxi, figs. 388, 389, 392, 393.
1913 F, 307.
Recent; North America: Pleistocene (Fossil Lake); Oregon.

Marila americana (Eyton).

Eyton, T. C. 1838, Monogr. Anatidæ, 155 (Fuligula).
A. O. U. 1910 A, 74.
Hay, O. P. 1927 D, 198.
Miller, L. H. 1925 A, 314.
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1913 A, 39.
1913 B, 141, pl. xxxi, figs. 384, 385 (This species?).
1913 F, 307 (This species?).
Recent; North America: Pleistocene (Fossil Lake); Oregon.

Marila collaris (Donovan).

Donovan, E. 1809, Brit. Birds, VI, 147 (Anas).
A. O. U. 1910 A, 75.
Miller, L. H. 1916 D, 173 (This species?).
Shufeldt, R. W. 1913 A, 39.
1913 B, 141 (This species?).
1913 F, 307 (This species?).
Recent; North America: Pleistocene (Fossil Lake?); Oregon: Upper Miocene (Cedar Mountain?); California.

Marila marila (Linnæus).

Linnæus, C. 1761, Fauna Suecica, ed. 2, 39 (Anas).
Hay, O. P. 1902 A, 530 (Athya).
A. O. U. 1910 A, 75.
Evans, A. H. 1899 A, 121 (Fuligula).
Knowlton, F. H. 1909 B, 193 (Fuligula).
Shufeldt, R. W. 1913 A, 39.
1913 B, 141 (This species?).
1913 F, 307.
1914 C, pl. xii.
Recent; northern part of northern hemisphere: Pleistocene (Fossil Lake); Oregon.

Marila valisineria (Wilson).

Wilson, A. 1814, Amer. Ornith., VIII, 103, pl. lxx, fig. 5.
A. O. U. 1910 A, 74.
Hay, O. P. 1927 D, 244.
Miller, L. H. 1912 A, 81, 112.
Shufeldt, R. W. 1913 A, 39.
1913 B, 141, pl. xxx, figs. 372, 373, 375-378.
1913 F, 307.
1914 C, 11, pls. v, vi.
Recent; North America: Pleistocene (Fossil Lake); Oregon.

CHARITONETTA Stejneger. Type *Anas albeola* Linnæus.

Stejneger, L. 1885, Bull. U. S. Nat. Mus., No. 29, 163.
A. O. U. 1910 A, 76.
Knowlton, F. H. 1909 B, 195.
Shufeldt, R. W. 1914 C, 33.

Charitonetta albeola (Linnæus).

Linnæus, C. 1758 A, 124 (Anas).
Coues, E. 1884 A, 705, fig. 491 (Clangula).
Knowlton, F. H. 1909 B, 195, fig. 195.
Shufeldt, R. W. 1913 A, 39.
1913 B, 142, pl. xxx, figs. 366-369.
1913 F, 307.
1914 C, pls. vi, xii.
Recent; throughout northern hemisphere: Pleistocene (Fossil Lake); Oregon.

CLANGULA Oken. Type *Anas clangula* Linnæus.

Oken, L. 1817, Isis, I, 1183.
Hay, O. P. 1902 A, 530 (Clangula, Glaucionetta).
Adolphi, H. 1922 A, 81, fig. 30 (Harelda).
A. O. U. 1910 A, 76 (Clangula); 77 (Harelda).
Eyton, T. C. 1867 A, 210.
1869 A, pl. xi (Harelda); pl. xii (Clangula).
Giebel, C. G. 1855 A, 32 (Anas).
Kingsley, J. S. 1925 A, 288, fig. 311.
Knowlton, F. H. 1909 B, 194 (Clangula); 195 (Harelda).
Leunis and Ludwig 1883 A, 495 (Harelda).
Magnan, A. 1922 A, 170, pl. i.
Newton and Gadow 1896 A, 1064 (Clangula); 1070 (Harelda).
Ridgway, R. 1887 A, 86, 106, pl. xxv.
Shufeldt, R. W. 1909 A, 284 (Harelda); 372 (Clangula).
1913 B, 175.
1914 C, 58.

Clangula hyemalis (Linnæus).

Linnæus, C. 1758 A, 126 (Anas).
Hay, O. P. 1902 A, 530 (Clangula).
A. O. U. 1910 A, 77 (Harelda).
Hay, O. P. 1927 D, 244 (Harelda).
Knowlton, F. H. 1909 B, 195 (Harelda).
Miller, L. H. 1912 A, 81, 112 (Harelda).
Shufeldt, R. W. 1909 A, 375 (Harelda).

Shufeldt, R. W. 1913 B, 175, pl. xxxix, figs. 484, 485.
 1914 C, pls. ix, xiv (Harelda).
 Recent; Northern Hemisphere: Pleistocene (Fossil Lake); Oregon.

Clangula islandica (Gmelin).

Gmelin, J. F. 1789, Syst. Nat. I, II, 541 (Anas).
Hay, O. P. 1902 A, 530 (Glaucionetta).
A. O. U. 1910 A, 76.
Hay, O. P. 1927 D, 244.
Miller, L. H. 1912 A, 81, 112.
Shufeldt, R. W. 1909 A, 372, figs. 17, 18, 20, 26, 28, 31, 32.
 1913 B, 171, pl. xxxii, figs. 406, 407.
 1914 C, 25, 32, 47.
 Recent; northern North America: Pleistocene (Fossil Lake); Oregon.

HISTRIONICUS Lesson. Type *Anas histrionica* Linnæus.

Lesson, R. P. 1828, Manuel d'Ornith., II, 415.
Allen, J. A. 1893 B, 107.
A. O. U. 1910 A, 77.
Coues, E. 1884 A, 707.
Knowlton, F. H. 1909 B, 196.
Newton and Gadow 1896 A, 407.
Pycraft, W. P. 1906 A, 406.
Ridgway, R. 1887 A, 86, 107, pl. xxv.

Histrionicus histrionicus (Linnæus).

Linnæus, C. 1758 A, 127 (Anas).
A. O. U. 1910 A, 77.
Coues, E. 1884 A, 707 (H. minutus).
Giebel, C. G. 1855 B, 31 (Anas).
Knowlton, F. H. 1909 B, 196.
Shufeldt, R. W. 1913 A, 39.
 1913 B, 126, 142, pl. ix, fig. 16; pl. xxx, figs. 360-363.
 1913 F, 307.
 1914 C, 32.
 Recent; northern North America and eastern Asia: Pleistocene (Fossil Lake); Oregon.

POLYSTICTA Eyton. Type *Anas stelleri* Pallas.

Eyton, T. C. 1836, Cat. Brit. Birds, 58.
A. O. U. 1910 A, 78.
Knowlton, F. H. 1909 B, 197.

Polysticta stelleri (Pallas).

Pallas, P. S. 1769, Spic. Zool., I, fasc. vi, 35, pl. v (Anas).
A. O. U. 1910 A, 78.
Shufeldt, R. W. 1913 A, 39.
 1913 B, 143, pl. xxx, figs. 370, 371, 374, 379, 381.
 1913 F, 307.
 1914 C, pls. ix, xi, xiv.
 Recent; coast of Bering Sea and Arctic Ocean; Pleistocene (Fossil Lake); Oregon.

OIDEMIA Fleming. Type *Anas nigra* Linnæus.

Fleming, J. 1822, Philos. Zool., II, 260.
Adolphi, H. 1922 A, 81.
A. O. U. 1910 A, 80.
Coues, E. 1884 E, 713 (Œdemia).
Eyton, T. C. 1867 A, 209.
Knowlton, F. H. 1909 B, 198.
Leunis and Ludwig 1883 A, 496.
Magnan, A. 1922 A, 170.
Parker, W. K. 1875 A, 712.
Shufeldt, R. W. 1914 C, 16.

Oidemia perspicillata (Linnæus).

Linnæus, C. 1758 A, I, 125 (Anas).
A. O. U. 1910 A, 82.
Coues, E. 1884 A, 714 (Œdemia).
Hay, O. P. 1927 D, 172.
Miller, L. H. 1914 A, 36.
 1928 A, 120.
Miller, W. D. 1926 A, 2, figs. 1, 2 (Melanitta).
Shufeldt, R. W. 1914 C, 24, pl. v.
 Recent; North America: Pleistocene (San Pedro); California.

ERISMATURINÆ.

Arldt, T. 1907 D, 89.
Knowlton, F. H. 1909 B, 199.
Pycraft, W. P. 1906 A, 406.
Shufeldt, R. W. 1914 C, 60.
Wetmore and Miller 1926 A, 341.

ERISMATURA Bonaparte. Type *Anas rubidus* Wilson = *A. jamaicensis* Gmelin.

Bonaparte, C. L. 1832, Gior. Arcad., LII, 208.
Allen, J. A. 1893 B, 107.
Arldt, T. 1907 D, 653.
Coues, E. 1884 A, 715.
Eyton, T. C. 1867 A, 211.
 1869 A, pl. xv.
Knowlton, F. H. 1909 B, 199.
Pycraft, W. P. 1906 A, 396.
Reichenow, A. 1913 A, 136.
Ridgway, R. 1887 A, 87, 113, pl. xxvi.
Shufeldt, R. W. 1914 C, 18.

Erismatura jamaicensis (Gmelin).

Gmelin, J. F. 1789, Syst. Nat. I, ii, 519 (Anas).
A. O. U. 1910 A, 82.
Coues, E. 1884 A, 715 (E. rubida).
Hay, O. P. 1927 D, 198, 244.
Knowlton, F. H. 1909 B, 199.
Miller, L. H. 1911 A, 86.
 1912 A, 81, 112.
 1925 A, 314.
Shufeldt, R. W. 1913 A, 39.

Shufeldt, R. W. 1913 B, 143, pl. xxxi, figs. 390, 391, 394-397.
1913 F, 307.

Shufeldt, R. W. 1914 C, 18, pl. vi.
Recent; North America: Pleistocene (Fossil Lake); Oregon.

MERGINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 119.
A. O. U. 1910 A, 66.
Arldt, T. 1907 D, 89.
Carus, V. 1875 A, 353 (Mergidæ).
Knowlton, F. H. 1909 B, 199.
Reichenow, A. 1913 A, 133 (Mergidæ).
Shufeldt, R. W. 1913 B, 140.
1914 C, 41.
Wetmore and Miller 1926 A, 341.

LOPHODYTES Reichenbach. Type *Mergus cucullatus* Linnæus.

Reichenbach, H. G. 1852, Syst. Avium, ix.
Hay, O. P. 1902 A, 529.
Allen, J. A. 1893 B, 107.
A. O. U. 1910 A, 67.
Lebedinsky, N. G. 1921 A, 13.
Leunis and Ludwig 1883 A, 497 (Mergus).
Magnus, H. 1871 A, 24, 57 (Mergus).
Ridgway, R. 1887 A, 84, 89, pl. xxi.
Shufeldt, R. W. 1909 A, 376.

Lophodytes cucullatus (Linnæus).

Linnæus, C. 1758 A, 129 (Mergus).
Hay, O. P. 1902 A, 529.
1927 D, 244.
Miller, L. H. 1912 A, 80, 112.
Shufeldt, R. W. 1909 A, 376.
1913 B, 140.
1914 C, 30.
Recent; North America: Pleistocene (Fossil Lake); Oregon.

MERGUS Linnæus. Type *M. merganser* Linnæus.

Linnæus, C. 1758 A, 129.
Adolphi, H. 1922 A, 84.
A. O. U. 1910 A, 66.
Arldt, T. 1907 D, 665.
Beddard, F. E. 1898 A, 542.
Brauns, D. 1890 A, 201.
Chandler, A. C. 1916 C, 328.
Coues, E. 1884 A, 716.
Cuvier, G. 1805 A.
Diethelm, M. 1907 A, 41.
Döderlein, L. 1923 A, 142, 162.
Eyton, T. C. 1867 A, 212.
1869 A, pl. i.
Foote, J. S. 1916 A, 60.
Fürbringer, M. 1888 A, pls. ii, iv, v, vii.
Gegenbaur, C. 1871 A, 174.
Giebel, C. G. 1855 B, 32.
Heilmann, G. 1913 A, 37.
1916 A, 105, fig. 198.
Hesse, H. 1907 A, 203, pl. x, fig. 13.
Kessler, K. T. 1841 A, 676.
Kingsbury, B. F. 1926 A, 103.
Knowlton, F. H. 1909 B, 200.
Magnan, A. 1922 A, 170, pl. x.
Meckel, J. F. 1825 A.
Newton and Gadow 1896 A, 1074.
Pycraft, W. P. 1910 A, 403.
Ridgway, R. 1887 A, 84, 90, pl. xxi.
Selenka, E. 1869 A, 76.
Shufeldt, R. W. 1882 B, 326, fig. 2.
1909 A, 377.
1913 B, 140.
1914 C, 40.
Sundevall, C. J. 1886 A, 401, 405.
Taschenberg, O. 1899 A, 4150.
Weitzel, A. 1865 A, 343.

Mergus americanus Cassin.

Cassin, J. 1852, Proc. Acad. Nat. Sci. Phila., vi, 1852, 187.
Adolphi, H. 1922 A, 84, fig. 31 (M. merganser).
A. O. U. 1910 A, 66.
Coues, E. 1884 A, 716, fig. 499 (M. merganser).
Owen, R. 1866 B, 225, fig. 107.
Shufeldt, R. W. 1913 A, 39.
1913 B, 140, pl. xxxii, fig. 403.
1913 F, 307.
Recent; North America: Pleistocene (Fossil Lake?); Oregon.

Mergus serrator Linnæus.

Linnæus, C. 1758 A, 129.
A. O. U. 1910 A, 67.
Baker, F. C. 1920 A, 464.
Coues, E. 1884 A, 717, fig. 500.
Eyton, T. C. 1869 A, pl. xvi.
Fürbringer, M. 1888 A, pl. v.
Hay, O. P. 1923 A, 336.
Heilmann, G. 1913 A, 36, fig. 32.
1926 A, 9, 51, 139, figs. 4, 36.
Owen, R. 1866 B, 225, fig. 106.
Pycraft, W. P. 1906 A, 401.
Shufeldt, R. W. 1909 A, 377, figures.
1913 A, 39.
1913 B, 140, pl. xxx, figs. 364, 365.
1913 F, 307.
1914 C, 29, 30, 39.
Recent, northern part of northern hemisphere; Pleistocene (Fossil Lake); Oregon.

Mergus sp. indet.

Shufeldt, R. W. 1913 B, 171, pl. xxxi, fig. 398.
1913 F, 307.
Pleistocene (Fossil Lake); Oregon.

Suborder FALCONIFORMES Seebohm.

Seebohm, H. 1890, Classif. Birds.
Hay, O. P. 1902 A, 535 (Raptores).
Abel, O. 1919 A, 705 (Falciformes).
Adolphi, H. 1922 A, 89.
Arldt, T. 1907 D, 678 (Raptatores).
1912 A, 686, 687.
Barrows, W. B. 1885 A, 260 (Accipitres).
Blainville, H. M. D. 1821 A, 191 ("oiseaux de proie").
Bonaparte, C. L. 1832 A, 295 (Rapaces).
Brandt, J. F. 1853 A, 179 (Rapaces).
Chandler, A. C. 1914 B, 141 (Accipitres).
Clark, H. L. 1901 A, 376 ("falconiform").
Cope, E. D. 1891 N, 58, 60 (Accipitres).
Evans, A. H. 1899 A, 137.
Fürbringer, M. 1888 A (Aëtomorphæ).
Gadow, H. 1893 A, 155.
1910 B, 977.
Gegenbaur, C. 1871 A, 188 ("raubvögel").
Grote, H. 1902 A, 59 ("raubvögel").
Hoernes, R. 1886 A, 645 (Raptatores).
Houssay and Magnan 1912 A, 39 ("rapaces diurnes").
Huxley, T. H. 1867 C, 255 (Raptores).
Illiger, C. 1811 A, 194, 232 (Raptatores).
Köstlin, O. 1844 A ("raubvögel").
Lambrecht, K. 1914 A, 66, 73.
Lebedinsky, N. G. 1918 A, 37 (Accipitriformes).
1918 B, 140, 146 (Accipitriformes).
Leunis and Ludwig 1883 A, 416 (Raptores).
Lühder, W. 1871 A, 324 (Raptatores).
Lydekker, R. 1879 A, 13, 27 (Raptores, Aëtomorphæ).
Magnus, H. 1871 A (Raptatores).
Meckel, J. F. 1825 A ("raubvögel").
Miller, W. D. 1924 A, 2 ("birds of prey").
Newton and Gadow 1896 A, 2, 40, 765 (Raptores).
Owen, R. 1866 B (Raptores).
Pander and Alton 1838 A, 1 ("raubvögel").
Parker, W. K. 1875 A, 700, 712, 713, 724 (Aëtomorphæ).
Parker and Bettany 1877 A, 264 (Aëtomorphæ).
Pycraft, W. P. 1902 A, 277, 318 (Falconiformes).
1903 B, 6 (Falconiformes).
Reichenow, A. 1913 A, 360 (Accipitres).
Sharpe, R. B. 1891 A, 78 (Accipitriformes).
Shufeldt, R. W. 1896 A, 370 (Accipitres).
1909 A, 7 (Raptores).
Steiner, H. 1916 A, 493, 499 (Raptores).
1918 A, 324, 441, 490.
Stejneger, L. 1903 A, 628 (Raptores).
Sushkin, P. P. 1896 A, 767 ("raubvögel").
1899 A, 500 (Raptatores).
1900 A, 269 ("tagraubvögel").
1900 B, 522 ("tagraubvögel").
Vialleton, L. 1916 A, 6.
Wetmore and Miller 1926 A, 341.

Superfamily VULTUROIDÆ, new form.

Hay, O. P. 1902 A, 535 (Cathartides).
Adolphi, H. 1922 A, 89 (Cathartæ).
Chandler, A. C. 1916 C (Catharthæ).
Chomjahoff, M. 1901 A, 136 (Catharthæ).
Dabbene, R. 1910 A, 472 (Cathartidiformes).
Evans, A. H. 1899 A, 137 (Cathartæ).
Gadow, H. 1893 A, 135, 158 (Cathartæ).
1910 B, 977 (Cathartæ).
Gaillard, C. 1908 A, 43 ("cathartides").
Knowlton, F. H. 1909 B, 203 (Cathartæ).
Lebedensky, N. G. 1918 A, 40 (Cathartidiformes).
1918 B, 146 (Cathartidiformes).
Lönnberg, E. 1905 H, 8 (Cathartæ).
Miller, L. H. 1912 A, 72 (Cathartiformes).
1916 C, 105 (Cathartiformes).
Newton and Gadow 1896 A, 1063 (Cathartæ).
Pycraft, W. P. 1902 A, 278, 318 (Cathartæ).
1910 A, 49 (Cathartæ).
Sharpe, R. B. 1891 A, 78 (Cathartidiformes).
Shufeldt, R. W. 1904 B, 853 (Cathartoidea).
1909 A, 126, 371 (Cathartoidea).
Steiner, H. 1918 A, 490 (Cathartæ).
Stejneger, L. 1903 A, 628 (Sarcoramphi).
Sushkin, P. P. 1899 A, 500 (Cathartæ).
1899 B, 153 (Cathartæ).
Wallace, A. R. 1894 A, 441 (Cathartides).
Wetmore and Miller 341 (Cathartæ).

VULTURIDÆ Vigors.

Vigors, N. A. 1825 A, 423, 425.

Unless otherwise indicated the authors below quoted use the name Cathartidæ. Some of the literature cited refers to the Old World vultures now known as the Gypaëtidæ.

Hay, O. P. 1902 A, 535.
Adolphi, H. 1922 A, 89.
Arldt, T. 1907 D, 688 (Vulturidæ).
1912 A, 756.
Beddard, F. E. 1898 A, 481.
1904 A, 388.
Bonaparte, C. L. 1833 A, 1045 ("vautours").
1838 B, 116 (Vulturidæ, Vulturinæ).
1840 A, 260 (Vulturidæ, Vulturinæ).
Brandt, J. F. 1853 A, 180 (Vulturidæ); 181 (Sarcorhamphinæ).
Brauer, A. 1914 A, 283.
Carus, V. 1875 A, 305.
Dabbene, R. 1910 A, 472.
Evans, A. H. 1899 A, 137.
Forbes, W. A. 1882 B, 141.
Fürbringer, M. 1888 A (Cathartidæ).
1902 B, 640.
Gadow, H. 1893 A, 158.
Garrod, A. H. 1873 D, 634.
1874 A, 117.
Heilmann, G. 1926 A, 102 ("vultures").
Heilprin, A. 1887 A, 66 (Cathartinæ).
Huxley, T. H. 1867 A, 442, 463.
1867 C, 280.
1868 C, 314.
Knowlton, F. H. 1909 B, 246 (Vulturinæ).
Lebedinsky, N. G. 1918 B, 146 (Vulturidæ).
Leunis and Ludwig 1883 A, 421.
Lydekker, R. 1891 A, 33.
Miller, L. H. 1912 A, 85.
1913 A, 132.
1925 B, 92, 94.

Newton, A. 1885 A, 47.
Parker, W. K. 1875 A, 713.
1875 D, 129.
Reichenow, A. 1913 A, 361 (Cathartidæ).
Ridgway, R. 1875 A, 225.
1887 A, 218.
1903 A, 510.
Sharpe, R. B. 1891 A, 78 (Vulturidæ).
Shufeldt, R. W. 1881 F, 906.
1894 A, 23.
1904 B, 853.
1907 A, 123.
1909 A, 126, 371.
1915 C, 733.
Stejneger, L. 1903 A, 628.
Wetmore and Miller 1926 A, 341 (Cathartidæ).

CATHARTES Illiger. Type *Vultur aura* Linnæus.

Illiger, C. 1811 A, 236.
Barrows, W. B. 1885 A, 266.
Beddard, F. E. 1898 A, 537.
1904 A, 388, 389.
Bignon, F. 1889 A, 288, pl. x.
Blanchard, E. 1859 A, 55.
Bronn, H. G. 1849 A, 700.
Chandler, A. C. 1916 C.
Coues, E. 1884 A, 558.
Dabbene, R. 1910 A, 239, fig. 40.
Eyton, T. C. 1867 A, 19, pl. i, fig. 8.
Fürbringer, M. 1888 A.
Huxley, T. H. 1867 A, 441, 463.
1867 C, 259, 281, fig. 22.
Knowlton, F. H. 1909 B, 204.
Leunis and Ludwig 1883 A, 421
Lilienthal, G. 1917 A, 263, fig. 2 ("urubugeier")
Lönnberg, E. 1905 A, 8.
Mackie, S. J. 1863 C, 106.
Miller, L. H. 1912 A, 92.
1914 A, 38.
1921 B, 263.
Newton and Gadow 1896 A, 1063.
Pander and Alton 1838 A, 7.
Pycraft, W. P. 1902 A, 290.
1910 A, 49 (Catharte).
Ridgway, R. 1887 A, 220, pls. lx, lxiv (Pseudogryphys).
Sclater, P. L. 1886 A, 149.
Shufeldt, R. W. 1909 A, 371.
Wallace, A. R. 1876 A, i, 164.
Weitzel, A. 1865 A, 324 ("Cathar").

Cathartes aura (Linnæus).

Linnæus, C. 1758 A, 86 (Vultur).
Abel, O. 1926 B, 441.
Barrows, W. B. 1885 A, 267, fig. 126.
Chandler, A. C. 1916 C, 332.
Coues, E. 1884 A, 559, fig. 387.
Eyton, T. C. 1867 A, 19, pl. i, fig. 2.
Foote, J. S. 1916 A, 75, pl. vii.
1921 A, 7, pl. ii, figs. 11, 12.
Forbes, W. A. 1882 B, 141.
Fürbringer, M. 1888 A, pl. vi.
Hay, O. P. 1923 A, 382.
1927 D, 303.
Huxley, T. H. 1867 A, 440, 441, 463, fig. 22.
1867 C, 260, fig. 22.
Kingsley, J. S. 1925 A, 56, fig. 63.
Knowlton, F. H. 1909 B, 204.
Miller, L. H. 1909 B, 306.
1910 C, 11.
1911 C, 387, 399.
1912 A, 71, 73, 75, 78, 84, 90, 113.
1914 A, 37.
1925 B, 86.
Osborn, H. F. 1925 D, 541.
Pander and Alton 1838 A, 6, pl. iv.
Parker, W. K. 1875 D, 137.
Ridgway, R. 1887 A, 221.
Selenka, E. 1869 A, pl. xii.
Shufeldt, R. W. 1881 F, 908 (Catharista).
1893 E, 681, fig. 1.
1916 E, 18.
1917 B, 36, pl. i, figs. 1, 2.
Swarth, H. S. 1915 A, 30.

Recent; United States south to Mexico: Pleistocene (La Brea, San Pedro, and caves) California: (Middle); Florida.

Cathartes aura septentrionalis Wied.

Wied-Neuwied, M. A. 1839, Reise Nord-America, i, 162.
Hay, O. P. 1923 A, 382.
Shufeldt, R. W. 1909 A, 371, pl. vi, fig. 9; pls. xiii, xiv; text-fig. 29.

Recent; British Columbia to Mexico, and New York: Pleistocene; Florida.

Cathartes sp. indet.

Miller, L. H. 1922 A, 123 (This genus?). Pleistocene (McKittrick); California.
1925 A, 309 (Occurrence at McKittrick recalled).

CORAGYPS Le Maout. Type *Vultur urubu* Vieillot.

Le Maout, E. 1853, Hist. nat. Oiseaux, 66.
Allen, J. A. 1893 B, 130 (Catharista).
Coues, E. 1884 A, 560 (Catharista).
Dabbene, R. 1910 A, 239 (Catharista).
Fürbringer, M. 1888 A (Catharista).
Knowlton, F. H. 1909 B, 206 (Catharista).
Magnan, A. 1922 A, 165 (Catharista).
Miller, L. H. 1912 A, 92 (Catharista).
Shufeldt, R. W. 1909 A, 371, figs. 5, 17 (Catharista).
Vieillot, L. J. P. 1816, Analyse, 21 (Catharista).

Coragyps occidentalis (L. H. Miller).

Miller, L. H. 1909 B, 306 (Catharista).
Abel, O. 1926 B, 238 (Catharista).
Hay, O. P. 1927 D, 186 (Catharista).
Lambrecht, K. 1921 A, 29 (Catharista).
Miller, L. H. 1910 C, 11 (Catharista).
1912 A, 78, 90, 97, 113 (Catharista).
1925 B, 86 (Catharista).
Osborn, H. F. 1925 D, 541 (Catharista).
Wetmore, A. 1927 A, 5.
Wyman, L. E. 1922 A, 31 (Catharista).
Pleistocene (La Brea); California.

Coragyps shastensis (Miller).

Miller, L. H. 1911 C, 388, 399, fig. 1 (Catharista).
Hay, O. P. 1927 D, 223 (Coragyps); 216 (Catharista).
Miller, L. H. 1912 A, 71, 73, 75, 90, 113 (Catharista).
Wetmore, A. 1927 A, 5.
Pleistocene (Caves); California.

PHASMAGYPS Wetmore. Type *P. patritus* Wetmore.

Wetmore, A. 1927 A, 3.

Phasmagyps patritus Wetmore.

Wetmore, A. 1927 A, 3, figs. 1-4.
1928 A, 152.
Oligocene (Chadron); Colorado.

CATHARTORNIS L. H. Miller. Type *C. gracilis* L. H. Miller.

Miller, L. H. 1910 B, 14.
Osborn, H. F. 1925 D, 541.

Cathartornis gracilis L. H. Miller.

Miller, L. H. 1910 B, 14, figs. 4, 4*a*.
Abel, O. 1926 B, 238.
Hay, O. P. 1927 D, 186.
Lambrecht, K. 1921 A, 29.
Miller, L. H. 1912 A, 78, 90, 113.
1925 B, 84, pl. v, figs. *a*-*c*; text-fig. 13.
Osborn, H. F. 1925 D, 541.
Wyman, L. E. 1922 A, 31, fig. 21 ("Cathartornis").
Pleistocene (La Brea); California.

PALÆOGYPS Wetmore. Type *P. prodromus* Wetmore.

Wetmore, A. 1927 A, 5.

Palæogyps prodromus Wetmore.

Wetmore, A. 1927 A, 5.
1928 A, 152.
Oligocene (Chadron); Colorado.

GYMNOGYPS Lesson. Type *Vultur californianus* Shaw.

Lesson, R. P. 1842, Écho du Monde Savant (2), VI, 1037.
Coues, E. 1884 A, 558 (Pseudogryphus).
Knowlton, F. H. 1909 B, 206.
Miller, L. H. 1912 A, 87, 92.
Ridgway, R. 1887 A, 219, 220, pls. lx, lxiv (Pseudogryphus).
Shufeldt, R. W. 1909 A, 375.

Gymnogyps amplus Miller.

Miller, L. H. 1911 C, 390, 399, fig. 2.
Hay, O. P. 1927 D, 216.
Miller, L. H. 1912 A, 71, 73, 113.
Pleistocene (Caves); California.

Gymnogyps californianus (Shaw).

Shaw, G. 1797, Nat. Misc., IX, 301 (Vultur).
Abel, O. 1926 B, 238.
Chandler, A. C. 1916 C, 331, pl. xxii, fig. 34.
Coues, E. 1884 A, 558, fig. 386 (Pseudogryphus).
Finley, W. L. 1908 A, 5.
Gilbert, J. Z. 1910 B, 25, fig. ("condor").
Hay, O. P. 1927 D, 186.
Knowlton, F. H. 1909 B, 206.
Miller, L. H. 1909 B, 306.
1910 B, 6, fig. 1.
1910 C, 11.
1912 A, 78, 84, 90, 92, 113.
1925 B, 81, fig. 10.
1927 A, 156.
Osborn, H. F. 1925 D, 541.
Ridgway, R. 1887 A, 220.
Sclater, P. L. 1886 A, 149 (Pseudogryphus).
Shufeldt, R. W. 1881 F, 907 (Pseudogryphus).
1909 A, 375, pl. ii; text-fig. 35.
Swarth, H. S. 1915 A, 30.
Wetmore, A. 1927 A, 5.
Recent; southern Oregon to Lower California: Pleistocene (La Brea); California.

VULTUR Linnæus. Type *Vultur gryphus* Linnæus.

Linnæus, C. 1758 A, 86.

Unless otherwise indicated the authors, as cited, use for this genus the name *Sarcoramphus*.

Adolphi, H. 1922 A, 89.
Aeby, C. 1873 A, 702.
Allen, J. A. 1906 A, 775, 858 (Vultur).
A. O. U. 1910 A, 371.
Barrows, W. B. 1885 A, 269, figs. 127, 128.
Beddard, F. E. 1898 A, 546.
1904 A, 389.
Bignon, F. 1889 A, 278, pl. x.
Blanchard, E. 1859 A, 55.
Bonsdorff, E. J. 1871 A, 305, 310.
Brandt, J. F. 1853 A, 181.
Dabbene, R. 1910 A, 238.
Diethelm, M. 1907 A, 41.
Duméril, A. M. 1806 A, 32.
Evans, A. H. 1899 A, 138.
Eyton, T. C. 1867 A, 17, pl. i A; pl. i, fig. 4; pl. ii, fig. 6; pl. v, fig. 1; pl. vi, fig. 1.
Foote, J. S. 1916 A, 71, pl. vii.
Fürbringer, M. 1888 A, pls. iii, iv, vi.
Gegenbaur, C. 1871 A, 189.
Giebel, C. G. 1855 B, 38.
Heilmann, G. 1913 B, 77.
Huxley, T. H. 1867 A, 463.
1867 C, 259, 281.
Knowlton, F. H. 1909 B, 207.
Leunis and Ludwig 1883 A, 421.
Lönnberg, E. 1905 A, 8.
Miller, L. H. 1912 A, 87.
Newton and Gadow 1896 A, 1082.
Osborn, H. F. 1925 D, 541.

Owen, R. 1866 B, 81 (Sarcorhamphus).
Pander and Alton 1838 A, 6, pl. ii.
Parker, W. K. 1875 A, 713, 714 (Sarcoramphus).
1875 D, 129, pl. xxv.
Pycraft, W. P. 1902 A, 280.
Reichenow, A. 1913 A, 362.
Selenka, E. 1869 A, pls. xii, xiii, xvi (Sarcorhamphus).
Shufeldt, R. W. 1909 A, 380, pl. ii, fig. 3; text-fig. 2.
Wallace, A. R. 1876 A, II, 346.

Vultur clarki (L. H. Miller).

Miller, L. H. 1910 B, 11, figs. 3, 3a (Sarcorhamphus).
Abel, O. 1926 B, 238 (Sarcorhamphus).
Hay, O. P. 1927 D, 186.
Lambrecht, K. 1921 A, 29 (Sarcorhamphus).
Miller, L. H. 1912 A, 78, 90, 97, 113 (Sarcorhamphus).
1925 B, 82, fig. 12 (Sarcorhamphus).
Osborn, H. F. 1925 D, 541 (Sarcorhamphus).
Pleistocene (La Brea); California.

PALÆOBORUS Coues. Type *Cathartes umbrosus* Cope.

Hay, O. P. 1902 A, 535.

Palæoborus umbrosus (Cope).

Cope, E. D. 1874 U, 151 (Cathartes).
Hay, O. P. 1902 A, 535.
Baird, S. F. 1876 A, cciii (Vultur).
Lambrecht, K. 1916 C, 494 (Plæoborus).
1921 A, 29.
Miller, L. H. 1912 A, 87, 94, 95.
Wetmore, A. 1927 A, 5.
Upper Miocene (Santa Fe); New Mexico.

TERATORNITHIDÆ Miller.

Miller, L. H. 1909 B, 317.

TERATORNIS L. H. Miller. Type *T. merriami* Miller.

Miller, L. H. 1909 B, 307.
Hrdlička, A. 1918 A, 19.
Merriam, J. C. 1909 C, 11.
1914 B, 6.
Miller, L. H. 1910 B, 16 (Pleistogyps).
1912 A, 90, 108, 111.
1915 B.
1921 B, 263.
1925 B, 67, 87, 94 (Teratornis); 92 (Pleistogyps a syn.).
Osborn, H. F. 1910 B, 473.
1925 D, 541.

Teratornis merriami L. H. Miller.

Miller, L. H. 1909 B, 307, figs. 1-9.
Abel, O. 1926 B, 238.
Gilbert, J. Z. 1910 B, 24, fig.
H. H. 1927 A, 167 ("Teratornis").
Hay, O. P. 1927 D, 186, 198.
Lambrecht, K. 1921 A, 30 (T. merriami, Pleistogyps rex).
Merriam, J. C. 1909 C, 11, fig. ("Teratornis").
1914 F, 28 ("Teratornis").
1915 G, 98 ("Teratornis").
Merriam, J. C. 1924 A, 352 ("Teratornis").
Miller, L. H. 1910 B, 18 (T. merriami); 16, figs. 5-5b (Pleistogyps rex).
1910 C, 11.
1911 D, 118.
1912 A, 78, 113 (T. merriami); 78, 90, 113 (Pleistogyps rex).
1921 C, 130 (Pleistogyps rex a syn.).
1922 A, 123 ("Teratornis").
1923 A, 350, 355 ("Teratornis").
1925 A, 309, 322.
1925 B, 87, pls. i-iv; text-figs. 15-17.
1927 A, 156.
Osborn, H. F. 1925 D, 541.
Swarth, H. S. 1915 A, 30, fig. 17.
Wetmore, A. 1926 E, 525.
1928 A, 157.
Wyman, L. E. 1922 A, 30, fig. 21.
Pleistocene (La Brea); California.

Teratornis sp. indet.

Hoffmann, R. 1927 A, 155. Pleistocene; California.

Superfamily FALCONOIDÆ, new form.

Unless otherwise indicated the authors, as quoted, use for this group the name Accipitres.

Hay, O. P. 1902 A, 535.
Abel, O. 1912 F, 301.
Adolphi, H. 1922 A, 90.
Beddard, F. E. 1898 A, 472.
Bittner, F. 1912 A, 2 ("tagraubvögel").
Bonaparte, C. L. 1831 A, 29.
1832 A, 294.
Bonsdorff, E. J. 1871 A, 310.
Blainville, H. M. D. 1821 A, 192 ("oiseoux de proie diurnes").
Brandt, J. F. 1853 A, 179 ("rapaces diurnæ").
Carus, V. 1875 A, 300 (Raptatores).
Chandler, A. C. 1916 C.
Chomjakoff, M. 1901 A, 136.
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 467 (Accipitriformes).
Diethelm, M. 1907 A, 18 (Accipitriformes).
Eimer, G. H. T. 1901 A, 261 ("raubvögel").
Evans, A. H. 1899 A, 137.
Forbes, W. A. 1881 B, 671.
Fürbringer, M. 1902 B, 640.
Gadow, H. 1893 A, 159.
1910 B, 977.
Garbowski, T. 1895 A, 445 ("diurni").
Garrod, A. H. 1874 A, 117.
Gegenbaur, C. 1871 A, 191 ("tagraubvögel").
Gervais, P. 1856 A, 8.
Heilmann, G. 1926 A, 102 ("hawks").
Huxley, T. H. 1867 C, 225.
Kessler, K. T. 1841 A, 481.
Köstlin, O. 1844 A ("tagraubvögel").
Lebedinsky, N. G. 1913 A.

L'Herminier, F. 1836 A, 112.
Linnæus, C. 1758 A, 81, 83, 86.
Lönnberg, E. 1905 A, 10 (Accipitriformes).
Lydekker, R. 1891 A, 18.
Magnus, H. 1871 A, 88 (Accipitrini).
Meckel, J. F. 1825 A, ("tagraubvögel").
Müller, W. 1907 A, 407.
Newton, A. 1885 A, 47 (Accipitres).
Newton and Gadow 1896 A, 1059.
Pander and Alton 1838 A, 1.
Pycraft, W. P. 1902 A, 279, 318.
1910 A, 49, 439.
Sclater, P. L. 1858 A.
Sharpe, R. B. 1891 A, 78.
Shufeldt, R. W. 1904 B, 853 (Accipitres, Accipitriformes, Falconoidea).
1909 A, 369 (Accipitres); 374 (Falconoidea).
Steiner, H. 1918 A, 490.
Stejneger, L. 1903 A, 628 (Falcones).
Sushkin, P. P. 1896 A, 768.
1899 A, 500.
1899 B.
1900 A, 269.
1905 A.
Vialleton, L. 1916 A, 7.
Wallace, A. R. 1876 A, I, 489; II, 557.
Weitzel, A. 1865 A, 344, 353 ("tagraubvögel").
Wetmore and Miller 1926 A, 341 (Falconi, Falconides).
Wilbrand, J. B. 1823 A, 511 ("raubvögel").
Wray, R. S. 1887 A, 348.
Zittel and Lucas 1902 A, 276.
Zittel and Schlosser 1911 A, 324.
1923 A, 400.

BUTEONIDÆ.

A. O. U. 1910, 153.
Arldt, T. 1907 D, 642.
Carus, V. 1875 A, 308.
Fürbringer, M. 1888 A.
Knowlton, F. H. 1909 B, 226.
Pycraft, W. P. 1902 A, 279, 315, 318.
Suschkin, P. 1899 B, 152 (Buteoninæ, Haliætinæ).
Wetmore and Miller 1926 A, 342 (Accipitridæ).

ELANINÆ.

Knowlton, F. H. 1909 B, 226.
Pycraft, W. P. 1902 A, 315.
Ridgway, R. 1873 A, 53 (Elani).
1875 A, 225-231.
Ridgway, R. 1876 B, 150 (Elani).
1903 A, 510 (Elani).
Wetmore and Miller 1926 A, 342.

ELANUS Savigny. Type *Falco melanopterus* Daudin.

Savigny, M. J. C. L. 1809, Descr. Égypte, I, 69, 97.
A. O. U. 1910 A, 154.
Arldt, T. 1907 D, 87, 155.
Chandler, A. C. 1916 C, 335.
Coues, E. 1884 A, 525.
Eyton, T. C. 1867 A, 8.
Knowlton, F. H. 1909 B, 226.
Leunis and Ludwig 1883 A, 428.
Newton and Gadow 1896 A, 491, 739.
Parker, W. K. 1875 A, 713.
Pycraft, W. P. 1902 A, 288, pl. xxxi, fig. 2.
Ridgway, R. 1887 A, 222, 224, pl. lxv.
Shufeldt, R. W. 1909 A, 373.
Sushkin, P. P. 1899 A, 501.

Elanus leucurus (Vieillot).

Vieillot, L. J. P. 1818, Nouv. Dict. d'Hist. nat., xx, 563 (Milvus).
A. O. U. 1910 A, 154.
Coues, E. 1884 A, 525 (E. glaucus).
Hay, O. P. 1927 D, 186.
Miller, L. H. 1912 A, 78, 95, 113.
1925 B, 94.
Osborn, H. F. 1925 D, 541.
Ridgway, R. 1887 A, 225.
Shufeldt, R. W. 1909 A, 373, figs. 85, 87, 89.
Recent; North America and South America: Pleistocene (La Brea); California.

MILVINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 116.
Barrows, W. B. 1885 A, 273.
Carus, V. 1875 A, 308.
Coues, E. 1884 A, 522.
Knowlton, F. H. 1909 B, 234.
Reichenow, A. 1913 A, 396.
Shufeldt, R. W. 1909 A, 126, 377 (Milvidæ, Milvinæ).

PROICTINIA Shufeldt. Type *P. gilmorei* Shufeldt.

Shufeldt, R. W. 1913 C, 301, pl. lv, fig. 27.
Wetmore, A. 1923 A, 504.
The position of this genus is doubtful.

Proictinia effera Wetmore.

Wetmore, A. 1923 A, 504, figs. 19, 20.
1928 A, 153.
Lower Miocene (Lower Harrison); Nebraska.

Proictinia gilmorei Shufeldt.

Shufeldt, R. W. 1913 C, 301, pl. lv, fig. 27.
Lambrecht, K. 1921 A, 34.
Wetmore, A. 1923 A, 505.
Lower Pliocene (Republican River); Kansas.

ACCIPITRINÆ Swainson.

Swainson, W. 1837 A, 214.
Adolphi, H. 1922 A, 103.
Barrows, W. B. 1885 A, 273.
Bonaparte, C. L. 1838 B, 116.
1840 A, 261.
Brandt, J. F. 1853 A, 185, 189.

Carus, V. 1875 A, 307.
Coues, E. 1884 A, 526.
Evans, A. H. 1899 A, 146, 153.
Knowlton, F. H. 1909 B, 259.
Pycraft, W. P. 1902 A, 315.
Reichenow, A. 1913 A, 368.
Ridgway, R. 1875 A, 227.
Ridgway, R. 1887 A, 222.
Shufeldt, R. W. 1909 A, 126, 369.
Sushkin, P. P. 1899 A, 500.
1900 A, 275.
Wagner, R. 1843 A, 79.
Wetmore and Miller 1926 A, 342.

ACCIPITER Brisson. Type *A. accipiter* Brisson = *Falco nisus* Linnæus.

Brisson, M. J. 1760, Ornith., I, 310.
A. O. U. 1910 A, 155.
Barrows, W. B. 1885 A, 306.
Beddard, F. E. 1898 A, 478, 484.
Bignon, F. 1889 A.
Blanchard, E. 1859 A, 35.
Chomjakoff, M. 1901 A, 136.
Diethelm, M. 1907 A, 44.
Eyton, T. C. 1867 A, 5, pl. iii, fig. 6.
Heilmann, G. 1913 A, 16, fig. 10.
Knowlton, F. H. 1909 B, 259.
Lambrecht, K. 1914 A, 66.
Magnan, A. 1922 A, 135, pl. iv; text-fig. 2.
Newton and Gadow 1896 A, 1059.
Parker, W. K. 1875 A, 713, 714, fig. 25.
1875 D, 135, pls. xxv, figs. 7, 8.
Ridgway, R. 1887 A, 223, 227, pl. lxvi.
Shufeldt, R. W. 1909 A, 91, 126.
Steiner, H. 1918 A, 325, fig. 29.

Accipiter cooperi (Bonaparte).

Bonaparte, C. L. 1828, Amer. Ornith., II, 1, pl. x, fig. 1 (Falco).
A. O. U. 1910 A, 156.
Chandler, A. C. 1916 C, 336.
Hay, O. P. 1927 D, 186.
Knowlton, F. H. 1909 B, 260.
Miller, L. H. 1912 A, 84.
1921 C, 130.
1925 B, 95.
Ridgway, R. 1887 A, 228.

Recent; North America: Pleistocene (La Brea); California.

Accipiter velox (Wilson).

Wilson, A. 1812, Amer. Ornith., v, 116, pl. xlv, fig. 1 (Falco).
A. O. U. 1910 A, 115.
Hay, O. P. 1927 D, 186, 216.
Miller, L. H. 1911 C, 392, 399.
1912 A, 73, 84, 95, 113.
1925 B, 95.
Ridgway, R. 1887 A, 227.

Recent; North America: Pleistocene (La Brea, Samwel Cave); California.

BUTEONINÆ Swainson.

Swainson, W. 1837 A, 210 (Buteoninæ); 207 (Aquilinæ).
Adolphi, H. 1922 A, 91 (Aquilinæ).
Arldt, T. 1907 C, 677 (Aquilidæ).
1907 D, 639 (Aquilidæ).
Barrows, W. B. 1885 A, 273, 278 (Buteoninæ, Aquilinæ).
Bonaparte, C. L. 1838 B, 116.
1840 A, 260 (Aquilinæ, Buteoninæ).
Brandt, J. F. 1853 A, 185, 190 (Buteoninæ); 185, 187 (Aquilinæ).
Coues, E. 1884 A, 541.
Evans, A. H. 1899 A, 146, 164 (Buteoninæ); 146, 158 (Aquilinæ).
Gadow, H. 1893 A, 159 (Aquilinæ).
Knowlton, F. H. 1909 B, 254 (Buteoninæ); 238 (Aquilinæ).
Pander and Alton 1838 A, 13 ("buteonen").
Pycraft, W. P. 1902 A, 315 (Aquilinæ).
Reichenow, A. 1913 A, 389.
Ridgway, R. 1875 A, 227 (Buteoninæ, Aquilinæ).
1876 A, 451.
1903 A, 510 (Buteoninæ); 511 (Aquilæ).
Shufeldt, R. W. 1909 A, 370 (Buteoninæ); 127 (Aquilinæ).
Stejneger, L. 1903 A, 629 (Accipitrinæ).
Sushkin, P. P. 1899 A, 500 (Buteoninæ, Aquilinæ).
1899 B, 153.
1900 A, 272.
Wetmore and Miller 1926 A, 342.

BUTEO Lacepède.

Lacepède, B. G. E. 1799, Tableaux Oiss., 4.
Adolphi, H. 1922 A, 10, 96, fig. 33.
Allen, J. A. 1893 B, 99.
Arldt, T. 1907 D, 210, 266.
Barrows, W. B. 1885 A, 278, 292.
Bignon, F. 1889 A.
Blanchard, E. 1859 A, 40.
Bonaparte, C. L. 1833 A, 1046.
Bonsdorff, E. J. 1871 A, 312.
Brandt, J. F. 1853 A, 191.
Chandler, A. C. 1916 C, 335.
Chomjakoff, M. 1901 A, 137.
Coues, E. 1884 A, 541.
Dabbene, R. 1910 A, 244.
Diethelm, M. 1907 A, 15, figs. 5, A, B.
Evans, A. H. 1899 A, 164.
Eyton, T. C. 1867 A, 9.
Gegenbaur, C. 1871 A, 189.
Heilmann, G. 1913 A, 16, fig. 10.
Hesse, H. 1907 A, 218, pl. viii, fig. 2.
Kingsley, J. S. 1925 A, 178, fig. 192.
Knowlton, F. H. 1909 B, 254.
Lambrecht, K. 1914 A, 66.
Leunis and Ludwig 1883 A, 428.
Lydekker, R. 1891 A, 21.
Mackie, S. J. 1863 C, 106.
Magnan, A. 1922 A, 177, pl. iv.
Newton and Gadow 1896 A, 1062.
Parker, W. K. 1875 A, 713.
Reichenow, A. 1913 A, 391.
Ridgway, R. 1887 A, 223, 229, pls. lxvii, lxxii.
Shufeldt, R. W. 1909 A, 370.
Strasser, H. 1885 A, 204.
Sundevall, C. J. 1886 A, 423.

Sushkin, P. P. 1899 A, 501.
1900 A, 277.
Wallace, A. R. 1876 A, II, 348.
Weitzel, A. 1865 A, 326.

Buteo borealis Gmelin.

Gmelin, J. G. 1788, Syst. Nat., I, 266.
A. O. U. 1910 A, 157.
Chandler, A. C. 1916 C, 335, pl. xxiii, fig. 38.
Coues, E. 1884 A, 544, fig. 380.
Hay, O. P. 1927 D, 186.
Knowlton, F. H. 1909 B, 255, fig. 81.
Matthew, W. D. 1918 A, 187 (This species?).
Merriam, J. C. 1917 A, 437 (This species?).
Miller, L. H. 1909 B, 306.
1910 C, 11.
1911 C, 391, 399.
1912 A, 71, 78, 84, 95.
1925 B, 95.
Osborn, H. F. 1925 D, 541.
Ridgway, R. 1887 A, 232.
Shufeldt, R. W. 1909 A, 72, 126, figs. 42, 45, 47.
Sinclair, W. J. 1915 A, 77 (This species?).
Wetmore, A. 1923 A, 491.
1926 F, 2.
1928 D, 149.

Recent; North America from Alaska to Guatemala: Pliocene (Snake Creek); Nebraska: Pleistocene (La Brea and Caves); California; Nebraska.

Buteo swainsoni Bonaparte.

Bonaparte, C. L. 1838, Geog. and Comp. List, 3.
A. O. U. 1910 A, 159.
Coues, E. 1884 A, 546.
Hay, O. P. 1927 D, 186, 216.
Miller, L. H. 1911 C, 391, 399.
1912 A, 73, 84, 95, 113 (This species?).
1925 B, 95.
Ridgway, R. 1887 A. 235.

Recent; North America and South America: Pleistocene (La Brea); California.

Buteo typhoius Wetmore.

Wetmore, A. 1923 A, 489, figs. 3-5.
Matthew, W. D. 1924 C, 68.
Wetmore, A. 1928 A, 153.
1928 D, 149, figs. 58-61.

Upper Miocene (Lower Snake Creek); Nebraska.

Buteo sp. indet.

Hay, O. P. 1927 D, 186. Pleistocene; California.
Merriam, J. C. 1919 A, 450, 462, 527. Miocene (Barstow); California.
Miller, L. H. 1912 A, 78, 113. Pleistocene (La Brea); California.
1925 B, 95. Pleistocene (La Brea); California.
Osborn, H. F. 1925 D, 541. Pleistocene (La Brea); California.

ARCHIBUTEO Brehm. Type *Falco lagopus* Brünnich.

Brehm, C. L. 1828, Isis, XXI, 1269.
Adolphi, H. 1922 A, 98.
A. O. U. 1910 A, 161.
Barrows, W. B. 1885 A, 291.
Blanchard, E. 1859 A, 40.
Brandt, J. F. 1853 A, 192.
Chandler, A. C. 1916 C, 335.
Coues, E. 1884 A, 549.
Eyton, T. C. 1867 A, 9.
Knowlton, F. H. 1909 B, 258.
Lambrecht, K. 1914 A, 66.
Leunis and Ludwig 1883 A, 429.
Miller, L. H. 1925 A, 309, 323.
Ridgway, R. 1887 A, 223, 240.
Shufeldt, R. W. 1909 A, 96, 126.
Sushkin, P. P. 1899 A, 501.
Wallace, A. R. 1876 A, II, 348.

Archibuteo ferrugineus (Lichtenstein).

Lichtenstein, M. H. C. 1839, Abh. k. Akad. Wiss. Berlin (Phys. Kl.) for 1838 (1839), 428 (Falco).
A. O. U. 1910 A, 161.
Coues, E. 1884 A, 551.
Hay, O. P. 1927 D, 198, 223.
Miller, L. H. 1911 C, 391, 399.
1912 A, 75, 84, 85, 95, 113.
Osborn, H. F. 1925 D, 541.
Ridgway, R. 1887 A, 241.

Recent; western North America: Pleistocene (Caves); California.

MORPHNUS "*Cuvier*" Dumont. Type *Falco guianensis* Daudin.

Dumont, C. H. F. 1816, Dict. Sci. Nat., Suppl., 88.
Barrows, W. B. 1885 A, 287, fig. 134.
Carus, V. 1875 A, 309.
Knowlton, F. H. 1909 B, 245.
Leunis and Ludwig 1883 A, 430.
Miller, L. H. 1911 B, 312.
1912 A, 92, 93, 96.
1919 A, 427 ("walking eagle").
1921 B, 263 (Morphus).
1923 A, 351.
Osborn, H. F. 1925 D, 541.
Pycraft, W. P. 1902 A, 315.
Reichenow, A. 1913 A, 385.
Ridgway, R. 1876 B, 147.
Sushkin, P. P. 1899 A, 501.

Morphnus woodwardi Miller.

Miller, L. H. 1911 B, 312, 316, figs. 2*a*, 3*b*.
Hay, O. P. 1927 D, 186.
Miller, L. H. 1912 A, 78, 92, 95, 97, 114.
1925 B, 96.
Osborn, H. F. 1925 D, 541.
Wyman, L. E. 1922 A, 31.

Pleistocene (La Brea); California.

WETMOREGYPS Miller. Type *Morphnus daggetti* Miller.

Miller, L. H. 1928, Condor, xxx, 255.

Wetmoregyps daggetti (Miller).

Miller, L. H. 1915 A, 179, fig. 63 (Morphnus).
Hay, O. P. 1927 D, 186 (Morphnus).
Lambrecht, K. 1921 A, 30 (Morphnus).
Miller, L. H. 1921 C, 130 (Morphnus).
1925 B, pl. *v.* figs. *f-h* (Morphnus).
Miller, L. H. 1928, Condor, xxx, 255.
Osborn, H. F. 1925 D, 541 (Morphnus).
Wetmore, A. 1923 A, 486 (Morphnus).
Wyman, L. E. 1922 A, 31 (Morphnus).
Pleistocene (La Brea); California.

GERANOAËTUS Kaup. Type *G. aguja* = *G. melanoleucus* (Vieillot).

Kaup, J. J. 1844, Class. Säugethiere u. Vögel, 122.
Miller, L. H. 1911 B, 312.
1912 A, 92, 96.
Ridgway, R. 1876 B, 131.
Sushkin, P. P. 1899 A, 501.
Wetmore, A. 1923 A, 485.
1926 C, 405.

Geranoaëtus ales Wetmore.

Wetmore, A. 1926 C, 403, pl. xxxviii.
1928 A, 153.
Upper Miocene (Lower Harrison); Nebraska.

Geranoaëtus conterminus Wetmore.

Wetmore, A. 1923 A, 497, figs. 11-13.
Matthew, W. D. 1924 C, 68.
Wetmore, A. 1926 C, 406.
Lower Pliocene (Upper Snake Creek); Nebraska.

Geranoaëtus contortus Wetmore.

Wetmore, A. 1923 A, 492.
Matthew, W. D. 1924 C, 68.
Wetmore, A. 1926 C, 406.
1928 A, 153.
Upper Miocene (Lower Snake Creek); Nebraska.

Geranoaëtus dananus (Marsh).

Hay, O. P. 1902 A, 536 (Aquila).
Lambrecht, K. 1921 A, 33 (Aquila).
Matthew, W. D. 1918 A, 187 (Aquila. This species?).
Merriam, J. C. 1917 A, 437 (Aquila. This species?).
Miller, L. H. 1912 A, 92, 94, 95 (Aquila).
Shufeldt, R. W. 1915 D, 60, 77, pl. ii, fig. 13 (Aquila).
Sinclair, W. J. 1915 A, 77 (Aquila. This species?).
Wetmore, A. 1923 A, 499, 504 (Aquila).
1926 C, 406.
Upper Miocene or Pliocene (Snake Creek); Nebraska: Pleistocene? (Loup Fork); Nebraska.

Geranoaëtus fragilis Miller.

Miller, L. H. 1911 B, 315, 316, figs. 5*a*, 5*b*.
Hay, O. P. 1927 D, 186.
Miller, L. H. 1912 A, 78, 92, 95, 97, 114 (G. fragilis); 94 (G. gracilis).
1925 B, 98.
Osborn, H. F. 1925 D, 541.
Wetmore, A. 1923 A, 488, 502.
1926 C, 406.
Wyman, L. E. 1922 A, 31.
Pleistocene (La Brea); California.

Geranoaëtus grinnelli Miller.

Miller, L. H. 1911 B, 314, 316, figs. 4*a*, 4*b*.
Hay, O. P. 1927 D, 186.
Miller, L. H. 1911 C, 392.
1912 A, 78, 92, 95, 97, 114.
1925 B, 97.
Osborn, H. F. 1925 D, 541.
Wetmore, A. 1923 A, 488.
1926 C, 406.
Wyman, L. E. 1922 A, 31.
Pleistocene (La Brea); California.

Geranoaëtus melanoleucus (Vieillot).

Vieillot, L. J. P. 1819, Nouv. Dict. d'hist. nat. (nouv. ed.), 57 (Spizætus).
Hay, O. P. 1927 D, 223.
Miller, L. H. 1912 A, 75, 93, 95, 97, 114 (This species?).
Ridgway, R. 1876 B, 131.
Sharpe, R. B. 1874, Cat. Birds Brit. Mus., I, 168 (Buteo).
1899, Hand-list gen, and spec. birds, I, 225.
Wetmore, A. 1923 A, 488.
1926 C, 406.
1928 B, 3, figs. 1, 2.
1928 D, 150.
Recent; South America, Cuba: Pleistocene; Cuba.
Doubtfully in Hawver Cave, California.

Geranoaëtus sp. indet.

Matthew, W. D. 1918 A, 187. Pliocene (Snake Creek); Nebraska.
Miller, L. H. 1911 C, 392, 399. Pleistocene (Hawver Cave); California.
1922 A, 123 (This genus?). Pleistocene (McKittrick); California.

URUBITINGA La Fresnaye. Type *Falco urubitinga* Gmelin.

La Fresnaye, F. 1843, Dict. Univ. Hist. Nat., II, 786.
Barrows, W. B. 1885 A, 290.
Bignon, F. 1889 A.
Reichenow, A. 1913 A, 390.
Ridgway, R. 1887 A, 223, 238, pls. lxviii, lxxii.
Wetmore, A. 1923 A, 500.
1926 F, 1.

Urubitinga enecta Wetmore.

Wetmore, A. 1923 A, 500, figs. 14-18.
Matthew, W. D. 1924 C, 68.
1924 F, 119 ("Urubitinga").
Wetmore, A. 1926 F, 1, figs. 1-3.
Middle Miocene (Sheep Creek); Nebraska.

AQUILA Brisson. Type *Falco chrysaëtos* Linnæus.

Brisson, M. J. 1760, Ornith., I, 419.
Hay, O. P. 1902 A, 536.
Adolphi, H. 1922 A, 17, 91, fig. 7.
Aeby, C. 1873 A, 702.
Allen, J. A. 1893 B, 99.
A. O. U. 1910 A, 161.
Arldt, T. 1907 D, 639.
Barrows, W. B. 1885 A, 278, 281.
Beddard, F. E. 1898 A, 476.
Bittner, F. 1912 A, 8.
Bonsdorff, E. J. 1871 A, 310.
Chandler, A. C. 1916 C, 335.
Coues, E. 1884 A, 553.
Cuvier, G. 1805 A.
Diethelm, M. 1907 A, 7, fig. 2 D.
Eyton, T. C. 1867 A, 11, pl. ii, fig. 14; pl. v, fig. 2.
Fürbringer, M. 1888 A, pls. iii, iv, vi, vii.
Gaillard, C. 1908 A, 27.
Gaupp, E. 1905 D, 1025, fig. 43 ("adler").
Gegenbaur, C. 1871 A, 189.
Heilprin, A. 1887 A, 79.
Kessler, K. T. 1841 A, 488.
Knowlton, F. H. 1909 B, 238.
Ledouble, A. F. 1903 A, 642 ("aigle").
Leunis and Ludwig 1883 A, 429.
Lühder, W. 1871 A, 326.
Lydekker, R. 1879 A, 36, pl. iv, figs. 3-5.
1891 A, 24.
Mackie, S. J. 1863 C, 106.
Magnan, A. 1922 A, 156, pl. ii; text-figs. 10, 11.
Magnus, H. 1871 A, 18.
Miller, L. H. 1911 B, 307.
1924 B, 179.
1925 B, 81.
Newton and Gadow 1896 A, 1060.
Owen, R. 1866 B.
1868 A, 861.
Parker, W. K. 1875 A, 713.
Pycraft, W. P. 1902 A, 280.
Reichenow, A. 1913 A, 395.
Ridgway, R. 1887 A, 223, 241, pl. lxix.
Shufeldt, R. W. 1909 A, 126.
1913 C, 296.
Strasser, H. 1885 A, 204.
Sundevall, C. J. 1886 A.
Sushkin, P. P. 1899 A, 501.
Wallacé, A. R. 1876 A, II, 348.
Weitzel, A. 1865 A, 359.
Zittel and Schlosser 1911 A, 324.
1923 A, 400.

Aquila antiqua Shufeldt.

Shufeldt, R. W. 1913 C, 297, pl. lv, fig. 26.
1915 D, 42.
Middle Eocene (Bridger); Wyoming.

Aquila chrysaëtos (Linnæus).

Linnæus, C. 1758 A, 88 (Falco).
Abel, O. 1912 F, 22, 533.
1926 B, 236 (A. chrisaëtos).
A. O. U. 1910 A, 162.
Coues, E. 1884 A, 554.
Eyton, T. C. 1867 A, 11, pl. i, fig. 1; pl. vi, fig. 6.
Hay, O. P. 1927 D, 186, 198.
Knowlton, F. H. 1909 B, 238.
Miller, L. H. 1909 B, 306.
1910 C, 11.
1911 B, 307, 316, fig. 1.
1912 A, 78, 84, 92, 95, 113.
1921 A, 567.
1922 A, 123.
1925 A, 309, 323.
1925 B, 95.
1927 A, 156.
Osborn, H. F. 1910 B, 473.
1925 D, 541.
Ridgway, R. 1887 A, 242.
Shufeldt, R. W. 1909 A, 369, pls. v, xv; text-figs. 48, 50.
1913 A, 39.
1913 B, 153, pl. xl, figs. 488-493, 495.
1913 F, 307.
Sundevall, C. J. 1886 A, 406.
Wetmore, A. 1926 F, 2.
Recent; northern part of Northern Hemisphere: Pleistocene (La Brea); California; (Fossil Lake); Oregon.

Aquila ferox Shufeldt.

Shufeldt, R. W. 1913 C, 297.
Lambrecht, K. 1921 A, 33.
Middle Eocene (Bridger); Wyoming.

Aquila lydekkeri Shufeldt.

Shufeldt, R. W. 1913 C, 298.
Lambrecht, K. 1921 A, 33.
Middle Eocene (Bridger); Wyoming.

Aquila pliogryps Shufeldt.

Hay, O. P. 1902 A, 536.
1927 D, 244.

Lambrecht, K. 1921 A, 33.
Miller, L. H. 1912 A, 81, 92, 95, 114.
Shufeldt, R. W. 1913 B, 157.
Pleistocene (Fossil Lake); Oregon.

Aquila sodalis Shufeldt.

Hay, O. P. 1902 A, 536.
1927 D, 244.
Lambrecht, K. 1921 A, 33.
Miller, L. H. 1912 A, 81, 92, 93, 95, 114.
Shufeldt, R. W. 1913 B, 157.
Pleistocene (Fossil Lake); Oregon.

Aquila sp. indet.

Matthew, W. D. 1924 C, 68.
Wetmore, A. 1923 A, 504. Upper Miocen
(Lower Snake Creek); Nebraska.

HALIÆETUS Savigny. Type *H. nisus* Savigny = *Falco albicilla* Linnæus.

Savigny, M. J. C. L. 1809, Descr. de l'Egypte, 68, 85.
Adolphi, H. 1922 A, 10, 94, fig. 32 (Haliaëtos).
Barrows, W. B. 1885 A, 281 (Haliaëtus).
Beddard, F. E. 1898 A, 541.
Blanchard, E. 1859 A, 40.
Brandt, J. F. 1853 A, 188 (Haliaëtos).
Chandler, A. C. 1916 C, 335.
Coues, E. 1884 A, 554.
Dabbene, R. 1910 A, 478.
Döderlein, L. 1902 A, 438.
1923 A, 142, 162 (Haliætus).
Foote, J. S. 1916 A, pl. v.
Fürbringer, M. 1888 A, pl. iii (Haliaëtos).
Gegenbaur, C. 1871 A, 189 (Haliaëtus).
Heilmann, G. 1913 B, 79 (Haliaëtus).
Kingsley, J. S. 1925 A, 255, fig. 271 (Haliætus).
Knowlton, F. H. 1909 B, 235 (Haliaëtus).
Lambrecht, K. 1914 A, 58, 66, text-figs. 1, 2 (Haliaëtus).
Leunis and Ludwig 1883 A, 431 (Haliætus).
Lühder, W. 1871 A, 329 (Haliaëtos).
Lydekker, R. 1891 A, 23 (Haliaëtus).
Miller, L. H. 1911 B, 307.
1916 B, 100.
1921 B, 262 (Haliaëtus).
Newton and Gadow 1896 A, 1070.
Owen, R. 1866 B, 21 (Haliætus).
Pycraft, W. P. 1902 A, 280.
Reichenow, A. 1913 A, 398 (Haliaëtus).
Ridgway, R. 1887 A, 223, 242, pl. lxxi.
Selenka, E. 1869 A, 32 (Haliaëtos).
Shufeldt, R. W. 1909 A, 126.
Sushkin, P. P. 1899 A, 501.
1900 B, 527.
Taschenberg, O. 1899 A, 4096 (Haliaëtus).
Weitzel, A. 1865 A, 359 (Haliætos).

Haliæetus leucocephalus (Linnæus).

Linnæus, C. 1766, Syst. Nat., ed. 12, I, 124 (Falco).
A. O. U. 1910 A, 162.
Coues, E. 1884 A, 555, fig. 384.
Eyton, T. C. 1867 A, 14, pl. i; pl. ii, fig. 1; pl. iii, fig. 2 (Pandion).
Giebel, C. G. 1865 D, 505 (Haliaëtos).
Hay, O. P. 1927 D, 186, 280.
Knowlton, F. H. 1909 B, 235, fig. 77 (Haliaëtus).
Miller, L. H. 1911 B, 310, 311, 316, figs. 2*a*, 2*b*.
1912 A, 78, 84, 92, 93, 95, 114.
1925 B, 67, 81, 96 (Haliaëtus).
Osborn, H. F. 1925 D, 541.
Ridgway, R. 1887 A, 243.
Shufeldt, R. W. 1909 A, 375, pl. vii; pl. x, fig. 20; pl. xi, fig. 25; pl. xvi, fig. 33; text-figs. 49, 50, 52.
1913 A, 39.
1913 B, 153, 175, pl. xl, figs. 487, 494, 496 (Aquila haliæetus); 157 (Haliæëtus leucocephalus).
1913 C, 295, pl. lv, figs. 29, 33-37, 42.
1913 F, 307.
Recent; North America: Pleistocene (La Brea); California: (Sheridan); Nebraska: (Fossil Lake); Oregon.

CIRCINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 116.
Barrows, W. B. 1885 A, 273, 294.
Blanchard, E. 1859 A, 42.
Carus, V. 1875 A, 307.
Coues, E. 1884 A, 521.
Knowlton, F. H. 1909 B, 251.
Pycraft, W. P. 1902 A, 315.
Shufeldt, R. W. 1909 A, 126, 371.
Wetmore and Miller 1926 A, 342.

CIRCUS Lacepède. Type *Falco æruginosus* Linnæus.

Lacepède, B. G. E. 1799, Tableaux Oiss., 4.
Adolphi, H. 1922 A, 111.
Barrows, W. B. 1885 A, 294.
Bignon, F. 1889 A.
Bittner, F. 1912 A, 9.
Blanchard, E. 1859 A, 42.
Chandler, A. C. 1916 C.
Chomjakoff, M. 1901 A, 136.
Coues, E. 1884 A, 521.
Dabbene, R. 1910 A, 15, 241.
Eyton, T. C. 1867 A, 7, pl. ii, fig. 4; pl. iii fig. 4.
Fürbringer, M. 1888 A.
Knowlton, F. H. 1909 B, 251.
Lambrecht, K. 1914 A, 66.
Leunis and Ludwig 1883 A, 426.
Lydekker, R. 1891 A, 20.
Magnan, A. 1922 A, 177, pl. vi.

Miller, L. H. 1912 A, 96.
Newton and Gadow 1896 A, 1064.
Parker, W. K. 1875 A, 713.
Pycraft, W. P. 1902 A, 283.
Reichenow, A. 1913 A, 382.
Ridgway, R. 1887 A, 223, 227, pl. lxvi.
Shufeldt, R. W. 1909 A, 9, 126.
Sushkin, P. P. 1899 A, 501.

Circus hudsonius Linnæus.

Linnœus, C. 1766, Syst. Nat., ed. 12, I, 128 (Falco).
A. O. U. 1910 A, 155.
Chandler, A. C. 1916 C.
Coues, E. 1884 A, 521 (C. cyaneus h.).
Hay, O. P. 1927 D, 186, 198, 244.
Knowlton, F. H. 1909 B, 251.
Miller, L. H. 1909 B, 306.
1910 C, 11.
Miller, L. H. 1911 A, 87.
1912 A, 78, 81, 84, 95, 113.
1922 A, 123.
1925 A, 322.
1925 B, 94.
Osborn, H. F. 1925 D, 541.
Ridgway, R. 1887 A, 226.
Recent; Alaska to Prince Edward Island and Cuba: Pleistocene (La Brea); California.

Circus sp. indet.

Hay, O. P. 1927 D, 186, 198. Pleistocene; California.
Miller, L. H. 1912 A, 78, 95. Pleistocene (La Brea); California.
1921 A, 567. Pleistocene (McKittrick); California.
Osborn, H. F. 1925 D, 541. Pleistocene (La Brea); California.

FALCONIDÆ Vigors.

Vigors, N. A. 1825 A, 422.
Hay, O. P. 1902 A, 535.
Adolphi, H. 1922 A, 91.
Allen, J. A. 1871 A.
Arldt, T. 1907 D, 654.
1912 A, 710, 756.
Barrows, W. B. 1885 A, 263, 273.
Beddard, F. E. 1898 A, 472.
Bittner, F. 1912 A, 2 ("falconiden").
Bonaparte, C. L. 1831 A, 29.
1832 A, 295.
Brandt, J. F. 1853 A, 185.
Carus, V. 1875 A, 306.
Chandler, A. C. 1916 C.
Dabbene, R. 1910 A, 147 (Accipitridæ); 475 (Falconidæ).
Evans, A. H. 1899 A, 146.
Forbes, W. A. 1882 D, 63.
Fürbringer, M. 1902 B, 640, 641.
Gadow, H. 1893 A, 159.
Garrod, A. H. 1873 D, 634.
1874 A, 117, 122.
Gervais, P. 1856 A, 8 ("falconidés").
Hesse, H. 1907 A, 218.
Huxley, T. H. 1867 A, 462 (Gypaëtidæ, in part).
1867 C, 282 (Gypaëtidæ, in part).
Knowlton, F. H. 1909 B, 212.
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 423.
Lobley, J. L. 1908 A, 201, 207.
Lydekker, R. 1891 A, 19.
Miller, L. H. 1912 A, 92.
1913 A, 132.
1925 B, 92.
Newton, A. 1885 A, 47.
Parker, W. K. 1875 D, 129, 136.
1888 D, 473 ("falcons").
Pycraft, W. P. 1901 A, 350.
1902 A, 278, 315, 318.
1902 B, 324 ("hawks").
Reichenow, A. 1913 A, 367.
Ridgway, R. 1875 A, 225.
1876 A, 451.
1887 A, 218, 222.
1903 A, 509.
Shufeldt, R. W. 1904 B, 853.
1907 A, 123.
1909 A, 126, 374 (Falconoidea, Falconidæ).
Steiner, H. 1918 A, 324, 490.
Stejneger, L. 1903 A, 629.
Suschkin, P. 1899 A, 500.
1905 A.
Taschenberg, O. 1899 A, 4053.
Wallace, A. R. 1876 A, II, 347.
1894 A, 441.
Wetmore and Miller 1926 A, 342.

PANDIONINÆ.

Adolphi, H. 1922 A, 119 (Pandionidæ).
A. O. U. 1910 A, 168 (Pandionidæ).
Barrows, W. B. 1885 A, 273.
Beddard, F. E. 1898 A, 478 (Pandionidæ).
Coues, E. 1884 A, 556 (Pandionidæ).
Fürbringer, M. 1888 A, 1306.
Gadow, H. 1893 A, 159 (Pandionidæ).
Knowlton, F. H. 1909 B, 271.
Ridgeway, R. 1903 A, 510 (Pandiones).
Shufeldt, R. W. 1909 A, 126, 378 (Pandionidæ).
Suschkin, P. 1899 A, 500 (Pandionidæ).
Wetmore and Miller 1926 A, 342.

PANDION Savigny. Type *Falco haliaëtus* Linnæus.

Savigny, M. J. C. L. 1809, Descrip. de l'Égypte, I, 69, 95.
A. O. U. 1910 A, 168.
Barrows, W. B. 1885 A, 293.
Beddard, F. E. 1898 A, 544.
Blanchard, E. 1859 A, 39.
Coues, E. 1884 A, 556.
Fürbringer, M. 1888 A, pls. i, iii, vi.

Heilmann, G. 1913 A, 16, fig. 10.
1913 B, 79.
Huxley, T. H. 1867 A, 464.
1867 C, 282.
Knowlton, F. H. 1909 B, 231.
Lebedinsky, N. G. 1921 A, 13.
Leunis and Ludwig 1883 A, 431.
Magnan, A. 1922 A, 177.
Miller, L. H. 1925 B, 90.
Newton and Gadow 1896 A, 1077.
Owen, R. 1866 B, 21.
Pycraft, W. P. 1902 A, 281.
Reichenow, A. 1913 A, 399.
Ridgway, R. 1887 A, 254, pl. lxx.
1903 A, 510.
Selenka, E. 1869 A, pl. xvi, fig. 7.
Shufeldt, R. W. 1885 C, 516, fig.
1909 A, 378.
Sundevall, C. J. 1886 A, 406.
Sushkin, P. P. 1899 A, 510.
Weitzel, A. 1865 A, 359.

Pandion haliaëtus carolinensis (Gmelin).

Gmelin, J. F. 1788, Syst. Nat. I, I, 263 (Falco carolinensis).
Adolphi, H. 1922 A, 10, 119, fig. 39 (P. haliaëtus).
A. O. U. 1910 A, 168.
Barrows, W. B. 1885 A, 293, pl. (P. haliaëtus).
Coues, E. 1884 A, 556, fig. 385 (P. haliaëtus).
Ridgway, R. 1887 A, 255 (P. haliaëtus).
Shufeldt, R. W. 1913 B, 153 (Aquila haliæëtus).
Recent; N. and S. America to Paraguay: Pleistocene (Fossil Lake); Oregon.

POLYBORINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 116.
A. O. U. 1910 A, 167.
Arldt, T. 1907 C, 677 (Polyboridæ).
1907 D, 675.
Barrows, W. B. 1885 A, 273, 300.
Blanchard, E. 1859 A, 43, 45.
Coues, E. 1884 A, 539.
Evans, A. H. 1899 A, 151.
Knowlton, F. H. 1909 B, 220.
Miller, L. H. 1916 C, 105.
Pycraft, W. P. 1902 A, 293 (Polyboridæ); 296, 315, 318 (Polyborinæ).
Reichenow, A. 1913 A, 370.
Ridgway, R. 1875 A, 229, 231 (Polybori).
1876 A, 451 (Polybori).
1903 A, 510 (Polybori).
Shufeldt, R. W. 1909 A, 126, 379.
Sushkin, P. P. 1905 A.
1905 A.
Wetmore and Miller 1926 A, 342.

POLYBORUS Vieillot. Type *Falco tharus* Molina.

Vieillot, L. J. P. 1816, Analyse, 22.
A. O. U. 1910 A, 167.
Barrows, W. B. 1885 A, 301, fig. 141.
Coues, E. 1884 A, 539.
Dabbene, R. 1910 A, 486.
Fürbringer, M. 1888 A, pl. vi.
Huxley, T. H. 1867 A, 464.
Kingsley, J. S. 1925 A, 270, fig. 295.
Knowlton, F. H. 1909 B, 221.
Leunis and Ludwig 1883 A, 425.
Magnan, A. 1922 A, 167.
Miller, L. H. 1912 A, 92.
Newton and Gadow 1896 A, 74.
Pycraft, W. P. 1902 A, 280.
Reichenow, A. 1913 A, 372.
Ridgway, R. 1876 A, 452, 454.
1887 A, 224, 253.
Selenka, E. 1869 A, pl. xvi.
Shufeldt, R. W. 1909 A, 379.
Suschkin, P. 1905 A.

Polyborus cheriway (Jacquin).

Jacquin, J. F. 1784, Beytr. Gesch. Vögel, 17, pl. iv (Falco).
A. O. U. 1910 A, 167.
Coues, E. 1884 A, 220 (P. tharus audubonii); 539 (P. auduboni).
Eyton, T. C. 1867 A, 23, pl. i, fig. 9; pl. vi, fig. 4 (P. tharus).
Hay, O. P. 1927 D, 186, 198.
Knowlton, F. H. 1909 B, 221, fig. 75.
Miller, L. H. 1912 A, 78, 95, 96, 102, 114 (P. tharus).
1921 A, 567 ("caracara").
1921 C, 130.
1922 A, 123 ("C. sp.").
1923 A, 352 ("caracara").
1925 A, 309, 324.
1925 B, 99.
1927 A, 156.
Osborn, H. F. 1925 D, 541.
Reichenow, A. 1913 A, 372.
Ridgway, R. 1876 A, 457, pl. xxii.
1887 A, 254.
Shufeldt, R. W. 1909 A, 10, 27, fig. 14 (P. tharus); 379, figs. 53-55 (P. cheriway).
Recent; Florida to Arizona and Lower California, south to Guiana and Ecuador: Pleistocene (Early); California.

Polyborus sp. indet.

Hay, O. P. 1927 D, 198. Pleistocene; California.

FALCONINÆ Bonaparte.

Bonaparte, C. L. 1831 A, 30.
Adolphi, H. 1922 A, 111.
A. O. U. 1910 A, 163.
Barrows, W. B. 1885 A, 273.
Bonaparte, C. L. 1840 A, 261.
Brandt, J. F. 1853 A, 185, 194.
Coues, E. 1884 A, 531.
Evans, A. H. 1899 A, 146, 173.

Fürbringer, M. 1888 A, 1294.
Pycraft, W. P. 1902 A, 315, 318.
Reichenow, A. 1913 A, 404.
Ridgway, R. 1875 A, 227, 229.
    1876 A, 451.
    1903 A, 510.
Shufeldt, R. W. 1909 A, 126, 374.
Stejneger, L. 1903 A, 629.
Suschkin, P. 1900 A, 272.
    1900 B, 522.
    1905 A.
    1909 A, 126, 130, 131.
Wetmore and Miller 1926 A, 342.

FALCO Linnæus. Type *F. subbuteo* Linnæus.

Linnæus, C. 1758 A, 88.
Adolphi, H. 1922 A, 113.
Allen, J. A. 1893 B, 99.
A. O. U. 1910 A, 163.
Barrows, W. B. 1885 A, 309.
Beddard, F. E. 1898 A, 540.
Bittner, F. 1912 A, 3.
Blanchard, E. 1859 A, 34.
Bonsdorff, E. J. 1871 A, 305, pl. i.
Brandt, J. F. 1853 A, 195.
Bronn, H. G. 1848 A, 488.
    1849 A, 700.
Chandler, A. C. 1916 C, 335.
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 117, 250.
Diethelm, M. 1907 A, 20.
Döderlein, L. 1923 A, 142, 162.
Eyton, T. C. 1867 A, 3, pl. iii, fig. 1.
Fürbringer, M. 1888 A, pls. iii, iv, vi, vii.
Gaupp, E. 1908 B, 528.
Gegenbaur, C. 1863 A, 471.
Giebel, C. G. 1855 B, 39.
Kessler, K. T. 1841 A, 487.
Knowlton, F. H. 1909 B, 212.
Köstlin, O. 1844 A.
Lambrecht, K. 1914 A, 66.
Leunis and Ludwig 1883 A, 432.
Lühder, W. 1871 A, 326.
Mackie, S. J. 1863 C, 106.
Magnan, A. 1922 A, 135, pls. i, ii, vii, xii, xiv; text-fig. 2.
Magnus, H. 1871 A, 52.
Meckel, J. F. 1825 A.
Miller, L. H. 1925 B, 90.
Newton and Gadow 1896 A, 1067.
Noordenbos, W. 1905 B, 392.
Owen, R. 1866 B, 32, 60.
Pander and Alton 1838 A, 12, pl. iii.
Parker, W. K. 1875 A, 714.
    1875 D, 130, 132, pls. xxiv, xxv.
    1888 D, 478.
Pycraft, W. P. 1902 A, 280.
Reichenow, A. 1913 A, 407.
Ridgway, R. 1887 A, 224, 244, pls. lxxii, lxxiii.
Selenka, E. 1869 A, pl. ii, fig. 1; pl. xii, fig. 11; pl. xvi, fig. 3.
Shufeldt, R. W. 1909 A, 374.
Sieglbauer, F. 1911 A, 275.
Sippel, W. 1907 A, 492.
Sundevall, C. J. 1886 A, 401, 403.
Sushkin, P. P. 1899 A, 501.
    1905 A.
Taschenberg, O. 1899 A, 4054.
Wagner, R. 1843 A.
Weitzel, A. 1865 A, 325.

Falco columbarius Linnæus.

Linnæus, C. 1758 A, 90.
A. O. U. 1910 A, 165.
Miller, L. H. 1921 C, 130.
    1925 B, 99.
Ridgway, R. 1887 A, 250.
    Recent; North America: Pleistocene (La Brea); California.

Falco falconellus Shufeldt.

Shufeldt, R. W. 1915 D, 40, pl. xv, figs. 139-143 (F. falconella).
Lambrecht, K. 1921 A, 31 (F. falconella).
    Middle Eocene (Bridger); Wyoming.

Falco fusco-cærulescens Vieillot.

Vieillot, J. 1817, Nouv. Dict. d'Hist. Nat., XI, 90.
Hay, O. P. 1927 D, 198.
Miller, L. H. 1921 A, 567 (F. fuscocerulescens?).
    1925 B, 99 (F. fusco-cerulescens).
    Recent; California to Patagonia: Pleistocene (La Brea); California.

Falco mexicanus Schlegel.

Schlegel, H. 1850, Abh. Geb. Zool., Hft. 3, 15.
A. O. U. 1910 A, 164.
Coues, E. 1884 A, 534.
Hay, O. P. 1927 D, 186.
Knowlton, F. H. 1909 A, 213.
Miller, L. H. 1925 B, 98.
Ridgway, R. 1887 A, 247.
    Recent; British Columbia, Saskatchewan to southern Mexico: Pleistocene (La Brea); California.

Falco peregrinus Tunstall.

Tunstall, M. 1771, Orn. Brit., 1.
Adolphi, H. 1922 A, 112, fig. 37.
Barrows, W. B. 1885 A, 310, fig. 146.
Chandler, A. C. 1916 C, 335, pl. 23, fig. 36a.
Coues, E. 1884 A, 534, fig. 377.
Eyton, T. C. 1867 A, 1, pl. iii A; pl. ii, fig. 3; pl. v, fig. 4; pl. vi, fig. 5; pl. vii, fig. 2.
Fürbringer, M. 1888 A, pls. iii, iv, vi.
Hay, O. P. 1927 D, 186, 198.
Heilmann, G. 1913 A, 16, fig. 10.
Kessler, K. T. 1841 A, 680.
Knowlton, F. H. 1909 B, 214.
Lebedinsky, N. G. 1918 B, 141, fig. 5.
Miller, L. H. 1911 C, 392, 399.
    1912 A, 70, 71, 72, 78, 84, 95, 114.
    1921 C, 130.
    1922 A, 123.
    1925 A, 323.

Osborn, H. F. 1925 D, 541.
Parker, W. K. 1875 A, 713.
Ridgway, R. 1887 A, 247.
Shufeldt, R. 1909 A, 126.

The remains found in California probably belong to *F. mexicanus*, according to Miller, L. H. 1921 C, 130.

Recent; Greater part of North America: Pleistocene (La Brea and caves); California.

Falco sparverius (Linnæus).

Linnæus, C. 1758 A, 90
Adolphi, H. 1922 A, 118.
Coues, E. 1884 A, 537.
Hay, O. P. 1927 D, 186, 198, 216.
Knowlton, F. H. 1909 B, 219, fig. 74.
Miller, L. H. 1911 C, 392, 399.
1912 A, 71, 73, 78, 84, 95.
1922 A, 123.
1925 A, 324.
1925 B, 99.
Osborn, H. F. 1925 D, 541.
Pander and Alton 1838 A, 13.
Ridgway, R. 1887 A, 252.
Shufeldt, R. W. 1909 A, 374, fig. 28.

Recent; North America: Pleistocene (La Brea and caves); California.

Falco sp. indet.

Hay, O. P. 1927 D, 186. Pleistocene; California.
Miller, L. H. 1925 B, 99. Pleistocene (La Brea); California.

ÆGYPIIDÆ.

NEOGYPS Miller. Type *N. errans* Miller, L. H.

Miller, L. H. 1916 C, 108.
Abel, O. 1926 B, 238 ("N." sp.?).
Osborn, H. F. 1925 D, 541.

Neogyps errans Miller, L. H.

Miller, L. H. 1916 C, 108, fig. 2.
Hay, O. P. 1927 D, 186.
Lambrecht, K. 1921 A, 30.
Miller, L. H. 1925 B, 102, fig. 20.
1927 A, 156.
Osborn, H. F. 1925 D, 541.

Pleistocene (La Brea); California.

NEOPHRONTOPS Miller. Type *N. americanus* Miller.

Miller, L. H. 1916 C, 106.
Abel, O. 1926 B, 238 (N. sp.?).
Osborn, H. F. 1925 D, 541.

Neophrontops americanus Miller.

Miller, L. H. 1916 C, 106, fig. 1.
Hay, O. P. 1927 D, 186, 198.
Lambrecht, K. 1921 A, 30.
Miller, L. H. 1925 A, 309, 315, 323.
1925 B, 101, pl. v, figs. 4, 5; text-figs 18, 19.
1927 A, 156.
Osborn, H. F. 1925 D, 541.
Wyman, L. E. 1922 A, 31, fig. 21.

Pleistocene (La Brea); California.

Suborder GALLIFORMES Garrod.

Garrod, A. H. 1874 A, 116.

Unless otherwise indicated the writers, as quoted, use for this group the name Gallinæ.

Hay, O. P. 1902 A, 533.
Adolphi, H. 1922 A, 120.
Anderson, R. J. 1909 B, 745 (Gallinaceæ).
Arldt, T. 1907 D, 655 (Galliformes).
1912 A, 686, 687 (Galliformes).
Beddard, F. E. 1898 A, 290 (Galli).
Beecker, A. 1903 A, 593 (Gallus).
Bonaparte, C. L. 1831 A, 33.
1832 A, 306.
1833 A, 1062.
Bonsdorff, E. J. 1871 A, 310 (Gallinaceæ).
Braus, H. 1908 A, 386, figs. 1-3.
Carus, V. 1875 A, 317 (Rasores).
Chandler, A. C. 1914 B, 141 (Galli).
1916 C (Galliformes).
Clark, H. L. 1901 A, 377 ("galliform").
Cope, E. D. 1891 N, 58, 60.
Coues, E. 1884 A, 571.
Cutler, I. E. 1924 A, 144 ("fowls").
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 477 (Galliformes).
Du Toit, P. J. 1913 A (Gallus).
1914 A, 310 (Gallus).
Edgeworth, F. H. 1907 A, 511, figs. 1-17 (Gallus).
Evans, A. H. 1899 A, 186 (Galliformes).
Finn, F. 1894 A, 210.
1894 B, 454.
Foote, J. S. 1921 A, 7, pl. ii, fig. 13 (Gallus).
Forbes, W. A. 1881 A, 3.
Froriep, A. 1883 A, 177, pls. vii-ix; text-figs. 1-8.
1886 A, 137 ("hühner").
Fuchs, H. 1909 B, 132 (Phasianus, Tetrao).
Fürbringer, M. 1888 A, 1541, 1551, 1567 (Galliformes).
1902 B, 672, 677 (Galliformes).
Gadow, H. 1892 A, 243 (Galliformes).
1893 A, 164.
1910 B, 977.
Garrod, A. H. 1873 C, 33, 38.
Gaupp, E. 1913 A, 13, fig. 5 (Gallus).
Gegenbaur, C. 1863 A, 452 ("hühnchen").
1871 A, 165 (Alectoromorphæ).
Geoffroy St. Hilaire, E. F. 1807 E, 353 ("gallinacées").
Gervais, P. 1856 A, 11 ("gallinacés").
Heilmann, G. 1926 A, 205 ("gallinaceous birds")
Hill, C. 1899 A, 362, figs. 11-22 ("chick").

Hill, C. 1900 A, 421, pls. xxix, xxx.
Hoernes, R. 1886 A, 644 (Rasores).
Huxley, T. H. 1859 D, 394, 450, fig. 3 ("chick").
    1867 C, 248, 255.
    1868 C, 300.
Illiger, C. 1811 A, 257 (Gallinacei).
Kessler, K. T. 1841 A, 635.
Knopfli, W. 1917 A, 51 (Gallus).
Knowlton, F. H. 1909 B, 263 (Galliformes).
Köstlin, O. 1844 A ("gallinaceen").
Kulczycki, W. 1901 A, 577 (Gallus).
Lambrecht, K. 1914 A, 66, 73.
Lebedinsky, N. G. 1913 A (Galliformes).
    1917 A, 318, 324, figs. 3, 4 (Gallus).
    1918 A, 38 (Galliformes).
Leunis and Ludwig 1883 A, 441 (Gallinacei).
L'Herminier, F. 1836 A, 111 ("gallinacés").
Linnæus, C. 1758 A, 82, 85.
Lippincott, W. A. 1920 A, 536, pl. i ("chicks").
Lühder, W. 1871 A, 324 (Gallinacei).
Lull, R. S. 1917 B, 337 (Galliformes).
Lydekker, R. 1879 A, 4, 26, pl. ii (Alectoromorphæ).
    1891 A, 131.
Magnus, H. 1871 A ("hühner").
Marinelli, W. 1928 A, 155.
Meckel, J. F. 1825 A ("hühnervögel").
Miller, W. D. 1924 A, 2 ("gallinaceous birds").
Newton, A. 1885 A, 46 (Gallinæ).
Newton and Gadow 1896 A, 1068.
Owen, R. 1866 B, 10, 27, 32 (Gallinacei).
Parker, W. K. 1875 A, 699, 712, 723 (Alectoromorphæ).
    1875 D, 99, pl. i ("fowl").
    1888 D, 466 ("chick").
Pycraft, W. P. 1910 A, 50 (Galliformes).
Reichert, C. 1837 A, 121 ("hühner").
Ridgway, R. 1887 A, 184.
Sclater, P. L. 1858 A.
Seebohm, H. 1888 A, 418, 422, 424.
Sharpe, R. B. 1891 A, 68.
Shufeldt, R. W. 1894 A, 23 (Galliformes).
    1904 B, 852 (Galliformes).
    1909 A, 374.
    1915 C.
Steiner, H. 1916 A, 493 (Rasores).
    1918 A, 356, 441 (Galliformes).
Strecker, C. 1887 A, 309 ("hühner").
Tonkoff, S. 1900 A, 296 ("hühner").
Vialleton, L. 1916 A, 6.
Wagner, R. 1843 A, 79.
Wallace, A. R. 1876 A, I, 494; II, 337, 340, 344.
Weitzel, A. 1865 A, 333, 345 ("hühnervögel").
Wetmore and Miller 1926 A, 342 (Galliformes).
Wray, R. S. 1887 A, 348.
Zittel and Lucas 1902 A, 276.
Zittel and Schlosser 1911 A, 324.
    1923 A, 400.

Superfamily GALLOIDÆ, new name.

Hay, O. P. 1902 A, 533 (Alectoropodes).
Adolphi, H. 1922 A, 120 (Galli).
A. O. U. 1910 A, 134 (Phasiani).
Duméril, A. M. C. 1806 A, 54 (Alectrides).
Elliot, D. G. 1885 A, 197 (Gallini).
Evans, A. H. 1899 A, 190 (Galli).
Fürbringer, M. 1902 B, 677 (Alectornithes).
Gadow, H. 1892 A, 244 (Galli).
    1893 A, 171 (Galli).
    1910 B, 977 (Galli).
Hommes, J. H. 1924 A, 14, figs. 2, 4, 8-16 (Gallus).
Huxley, T. H. 1867 C, 275 (Alectropodes).
Illiger, C. 1811 A, 252 (Alectorides).
Jaekel, O. 1911 A, 175 (Galli).
Lubosch, W. 1923 A, 49, figs. 1-14 ("hündchen").
Merkel, F. 1809 A, tab. ii (Alectrides).
Newton and Gadow 1896 A, 1059 (Alectoromorphæ).
Prein, F. 1914 A, 643, pls. xxi-xxii; text-figs. 1-11 ("hühnchen").
Pycraft, W. P. 1910 A, 51 (Alectoropodes).
Rafinesque, C. S. 1815 A, 69 (Alectria).
Ridgway, R. 1887 A, 184 (Phasiani).
Sharpe, R. B. 1891 A, 68 (Phasiani).
Steiner, H. 1918 A, 357 (Galli).
Wetmore and Miller 1926 A, 342 (Galli, Phasianides).

CRACIDÆ Vigors.

Vigors, N. A. 1825 A, 480.
A. O. U. 1910 A, 146.
Elliot, D. G. 1885 A, 232.
Gadow, H. 1910 B, 977.
Knowlton, F. H. 1909 B, 271.
Ridgway, R. 1887 A, 184, 207.
Wetmore, A. 1923 A, 488, 489.

PENELOPINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 118.
A. O. U. 1910 A, 146.
Elliot, D. G. 1885 A, 233.
Ridgway, R. 1887 A, 207 (Cracinæ).
Wetmore and Miller 1926 A, 342.

ORTALIS Merrem. Type *Phasianus motmot* Linnæus.

Merrem, B. 1786, Avium Rar. Icones et Descr., II, 40.
A. O. U. 1910 A, 146.
Knowlton, F. H. 1909 B, 275.
Ridgway, R. 1887 A, 208, pl. xli.
Wetmore, A. 1923 A, 486.

Ortalis phengites Wetmore.

Wetmore, A. 1923 A, 487, figs. 1, 2.
Matthew, W. D. 1924 C, 68.
Wetmore, A. 1928 A, 153.

Lower Pliocene (Upper Snake Creek); Nebraska.

Superfamily GALLINULOIDIDÆ Lucas.

Hay, O. P. 1902 A, 535.
Shufeldt, R. W. 1915 B, 633.
Wetmore, A. 1923 A, 488.

GALLINULOIDES Eastman. Type *G. wyomingensis* Eastman.

Hay, O. P. 1902 A, 535.
Eastman, Gregory, Matthew 1917 A, 119.
Fürbringer, M. 1902 B, 674.
Shufeldt, R. W. 1915 B, 633 (*Palæobonasa* proposed).
1915 D, 42.
Zittel and Schlosser 1911 A, 324.
1923 A, 400.

Gallinuloides wyomingensis Eastman.

Hay, O. P. 1902 A, 535.
Andreae, A. 1901 C, 474.
Lambrecht, K. 1916 C, 495 (Gallinuloides, Palæobonasa).
1921 A, 80 (Palæobonasa).
Shufeldt, R. W. 1915 A, 633 (Palæobonasa).
1915 B, 619, figs. 1, 2.
1915 D, 40.
Wetmore, A. 1923 A, 488.
1928 A, 151.

Middle Eocene (Bridger); Wyoming.

TETRAONIDÆ Vigors.

Vigors, N. A. 1825 A, 480.
Hay, O. P. 1902 A, 534.
Aeby, C. 1873 A, 701, pl. xii (Tetrao).
Allen, J. A. 1871 A.
Arldt, T. 1907 D, 685.
1912 A, 710 (Tetraonidæ); 754 (Tetraoninæ).
Bonaparte, C. L. 1838 B, 118 (Tetraonidæ, Tetraoninæ).
Carus, V. 1875 A, 321.
Chandler, A. C. 1916 C, 269.
Coues, E. 1884 A, 577.
Elliot, D. G. 1885 A, 198.
Fürbringer, M. 1888 A.
1902 B, 674.
Gadow, H. 1893 A, 172.
Garbowski, T. 1895 A, 449 (Tetrao).
Gegenbaur, C. 1871 A, 166 (Tetrao).
Hesse, H. 1907 A, 217.
Huxley, T. H. 1868 C, 301 ("grouse type").
Knowlton, F. H. 1909 B, 280 (Tetraoninæ).
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 443.
Lobley, J. L. 1908 A, 201, 206.
Lühder, W. 1871 A, 330.
Lydekker, R. 1891 A, 132 (Tetraonidæ).
Magnus, H. 1871 A, 76.
Newton and Gadow 1896 A, 391.
Reichenow, A. 1913 A, 318.
Ridgway, R. 1887 A, 184 (Tetraonidæ); 185 (Tetraoninæ).
Shufeldt, R. W. 1904 B, 852.
1909 A, 380 (Tetraonidæ, Tetraoninæ).
1915 B, 632.
Steiner, H. 1918 A, 357.
Taschenberg, O. 1899 A, 4329.
Wallace, A. R. 1876 A, II, 338.
1894 A, 442.
Weitzel, A. 1865 A, 334 (Tetrao).

DENDRAGAPUS Elliot. Type *Tetrao obscurus* Say.

Elliot, D. G. 1864, Proc. Acad. Nat. Sci., Phila., 23.
A. O. U. 1910 A, 137.
Knowlton, F. H. 1909 B, 286.
Miller, L. H. 1912 A, 69.
Ridgway, R. 1887 A, 186, 194, pl. lvii.

Dendragapus obscurus (Say).

Say, T. 1823, Long's Exped., II, 14 (Tetrao).
Knowlton, F. H. 1909 B, 286.
Miller, L. H. 1911 C, 396, 400.
1912 A, 71, 84, 113.

Recent; western United States: Pleistocene (Caves); California.

The remains found in the caves of northern California belong probably to *D. sierræ.*

Dendragapus sp. indet.

Miller, L. H. 1911 C, 397. Pleistocene; California.

BONASA Stephens. Type *Tetrao umbellus* Linnæus.

Stephens, J. F. 1819, Gen. Zool., XI, 298.
Chandler, A. C. 1916 C, 266.
Coues, E. 1884 A, 584.
Knowlton, F. H. 1909 B, 289.
Leunis and Ludwig 1883 A, 445.
Newton and Gadow 1896 A, 394, 696.
Ridgway, R. 1887 A, 186, 197, pl. lviii.

Bonasa umbellus (Linnæus).

Linnæus, C. 1766, Syst. Nat., ed. 12, I, 275 (Tetrao).
Coues, E. 1884 A, 585, fig. 402.
Knowlton, F. H. 1909 B, 289.
Miller, L. H. 1911 C, 397, 400.
1912 A, 71, 113.
Peterson, O. A. 1926 A, 254.
Ridgway, R. 1887 A, 197.
Shufeldt, R. W. 1913 C, 299, pl. lv, figs. 19, 20; pl. lvi (This species?).
Wetmore, A. 1926, in Peterson, O. A. 1926 A, 254.
1927 B, 561.

Recent; Canada to Alaska, south to California, Colorado, Kansas, Tennessee: Pleistocene (Caves); California, Arkansas, Pennsylvania, Maryland.

TYMPANUCHUS Gloger. Type *Tetrao cupido* Linnæus.

Gloger, C. W. L. 1842, Hand- und Hilfsbuch, 396.
Hay, O. P. 1902 A, 534.
Foote, J. S. 1916 A, 61, pl. v.
1921 A, 8, pl. ii, fig. 14.
Fürbringer, M. 1888 A (Cupidonia).
Newton and Gadow 1896 A, 1086.
Ridgway, R. 1887 A, 185, 202, pl. lix.
Shufeldt, R. W. 1909 A, 381.

Tympanuchus lulli Shufeldt.

Shufeldt, R. W. 1915 D, 69, pl. xii, fig. 20.
Lambrecht, K. 1921 A, 79.
Pleistocene; New Jersey.

Tympanuchus pallidicinctus Ridgway.

Ridgway, R. 1873, Bull. Essex Inst., v, 199 (Cupidonia cupido pallidicinctus).
Hay, O. P. 1902 A, 534.
A. O. U. 1910 A, 144.
Hay, O. P. 1927 D, 244.
Miller, L. H. 1912 A, 81, 113.
Ridgway, R. 1887 A, 203.
Shufeldt, R. W. 1909 A, 201.
1913 B, 155.
Recent; Great Plains: Pleistocene (Fossil Lake); Oregon.

PEDIŒCETES Baird. Type *Tetrao phasianellus* Linnæus.

Baird, S. F. 1858, Rep. Expl. and Surv. R. R. Pacif., ix, xxi, xliv, 619, 625.
Hay, O. P. 1902 A, 534 (Pediocætes).
Allen, J. A. 1893 B, 109, 130 (Pediocætes).
A. O. U. 1910 A, 144.
Knowlton, F. H. 1909 B, 289 (Pediocœtes).
Ridgway, R. 1887 A, 185, 203 (Pediocætes).
Shufeldt, R. W. 1909 A, 378.

Pediœcetes lucasi Shufeldt.

Hay, O. P. 1902 A, 534 (Pediocætes lucasii).
Lambrecht, K. 1921 A, 79 (Pedioecætes).
Miller, L. H. 1912 A, 81, 113 (Pediocætes).
Shufeldt, R. W. 1913 B, 155 (Pediocætes).
Pleistocene (Fossil Lake); Oregon.

Pediœcetes nanus Shufeldt.

Hay, O. P. 1902 A, 534 (Pediocætes).
1927 D, 244.
Lambrecht, K. 1921 A, 79 (Pediocætes).
Miller, L. H. 1912 A, 81, 113 (Pediocetes).
Shufeldt, R. W. 1913 B, 155 (Pediocætes).
Pleistocene (Fossil Lake); Oregon.

Pediœcetes phasianellus (Linnæus).

Linnæus, C. 1758 A, 160 (Tetrao).
Hay, O. P. 1902 A, 534 (Pediocætes); 520 (Ichthyornis lentus).
A. O. U. 1910 A, 144.
Cockerell, T. D. A. 1923 C, 1 (P.? lentus).
Hay, O. P. 1927 D, 244.
Lambrecht, K. 1921 A, 49 (Ichthyornis lentus).
Palmer, T. S. 1919 A, 657 (Ichthyornis lentus).
Shufeldt, R. W. 1909 A, 202, 203, 229, pl. vi; text-fig. 29.
1915 D, 20, 25 (Graculavus lentus); pl. xv, fig. 127 (Ichthyornis lentus a syn.).
Recent; Alaska to northeastern California and Illinois: Pleistocene? Texas, Kansas.

Pediœcetes phasianellus columbianus (Ord).

Ord, G. 1815, in Guthrie's Geog., 2d Amer. ed., 317 (Phasianus columbianus).
A. O. U. 1910 A, 144.
Miller, L. H. 1912 A, 81, 113 (Pediocetes).
Shufeldt, R. W. 1913 B, 175, pl. xxxix, figs. 472, 473.
Recent; British Columbia to California and Colorado: Pleistocene (Fossil Lake); Oregon.

CENTROCERCUS Swainson. Type *Tetrao urophasianus* Bonaparte.

Swainson, W. 1831 (1832), Fauna Bor. Amer., ii, 358, 496.
Allen, J. A. 1893 B, 109.
A. O. U. 1910 A, 145.
Knowlton, F. H. 1909 B, 289.
Ridgway, R. 1887 A, 185, 204.

Centrocercus urophasianus (Bonaparte).

Bonaparte, C. L. 1827, Zool. Journ., iii, 213.
A. O. U. 1910 A, 145.
Foote, J. S. 1916 A, 66, pl. v.
Shufeldt, R. W. 1913 A, 39.
1913 B, 125, 139, pl. ix, figs. 1, 4, 6, 7, 9, 11-13; pl. xli.
1913 F, 307.
Recent; British Columbia to Nebraska and New Mexico: Pleistocene (Fossil Lake); Oregon.

PALÆOTETRIX Shufeldt. Type *P. gillii* Shufeldt.

Hay, O. P. 1902 A, 534.
Fürbringer, M. 1902 B, 674.

Palæotetrix gillii Shufeldt.

Hay, O. P. 1902 A, 534.
1927 D, 244.
Lambrecht, K. 1921 A, 79 (P. gilli).
Miller, L. H. 1912 A, 81, 113 (P. gilli).
Shufeldt, R. W. 1913 B, 155.
1913 C, 292.
Wetmore, A. 1928 A, 155.
Pleistocene (Fossil Lake); Oregon.

PERDICIDÆ.

Wetmore and Miller 1926 A, 342.

ODONTOPHORINÆ Gray.

Gray, G. R. 1846, Genera Birds, III, 512.

A. O. U. 1910 A, 134 (Odontophoridæ).

Blanchard, E. 1857 A, 99 ("perdrix").

Carus, V. 1875 A, 321.

Coues, E. 1884 A, 576, 588.

Elliot, D. G. 1885 A, 205.

Huxley, T. H. 1868 C, 302, 313.

Knowlton, F. H. 1909 B, 293.

Newton and Gadow 1896 A, 188, 756.

Reichenow, A. 1913 A, 314 (Odontophoridæ).

Wetmore and Miller 1926 A, 342.

Colinus Goldfuss. Type *Tetrao virginianus* Linnæus.

Goldfuss, G. A. 1820, Handb. Zool. II, 220.

A. O. U. 1910 A, 134.

Coues, E. 1884 A, 589 (Ortyx).

Knowlton, F. H. 1909 B, 226.

Reichenow, A. 1913 A, 315.

Ridgway, R. 1887 A, 185, 186, pl. lvi.

Colinus eatoni Shufeldt.

Shufeldt, R. W. 1915 D, 70, pl. xiii, fig. 103.

Lambrecht, K. 1921 A, 79.

Formation unrecorded; Kansas.

Colinus virginianus (Linnæus).

Linnæus, C. 1758 A, 161 (Tetrao).

A. O. U. 1910 A, 134.

Simpson, G. G. 1928 H, 3.

Recent; eastern North America from South Dakota to Maine, south to Gulf Coast: Pleistocene; Florida.

Colinus sp. indet.

Gidley, J. W. 1922 B, 120, pl. xxxv, fig. 11 (This genus?). Pliocene? (San Pedro Valley); Arizona.

Hay, O. P. 1927 D, 136. Pleistocene; Arizona.

Wetmore, A. 1924 A, 10. Pliocene? (San Pedro Valley); Arizona.

Oreortyx Baird. Type *Ortyx picta* Douglas.

Baird, S. F. 1854 Rep. Expl. and Surv. R. R. Pacific, IX, 642.

A. O. U. 1910 A, 135.

Coues, E. 1884 A, 591 (Orortyx).

Elliot, D. G. 1885 A, 206.

Heilprin, A. 1887 A, 66.

Knowlton, F. H. 1909 B, 295.

Ridgway, R. 1887 A, 185, 190, pl. lvi.

Oreortyx picta (Douglas).

Douglas, D. 1829, Trans. Linn. Soc. Lond., XVI, pt. i, 143 (Ortyx).

A. O. U. 1910 A, 135.

Coues, E. 1884 A, 591 (Orortyx).

Hay, O. P. 1927 D, 216, 223.

Knowlton, F. H. 1909 B, 295.

Miller, L. H. 1911 C, 397, 400.
 1912 A, 71, 73, 75, 84, 113.

Recent; Western Oregon, California, and northern Lower California: Pleistocene (Caves); California.

Lophortyx Bonaparte. Type *Tetrao californicus* Shaw.

Bonaparte, C. L. 1838, Geog. and Comp. List., 42.

A. O. U. 1910 A, 136.

Chandler, A. C. 1916 C, 266.

Coues, E. 1884 A, 591.

Elliot, D. G. 1885 A, 205.

Fürbringer, M. 1888 A, 161.

Knowlton, F. H. 1909 B, 295.

Miller, L. H. 1914 A, 38.
 1925 A, 310, 321.

Newton and Gadow 1896 A, 756, 939.

Owen, R. 1866 B, 27.

Lophortyx californica (Shaw).

Shaw, G. 1798, Nat. Misc., IX, 345 (Tetrao).

Coues, E. 1884 A, 592, fig. 412.

Elliot, D. G. 1885 A, 205, fig. 96 (L. californicus).

Eyton, T. C. 1867 A, pl. xxii, fig. 1 (L. californicus).

Fürbringer, M. 1888 A, pl. vi.

Hay, O. P. 1927 D, 308.

Knowlton, F. H. 1909 B, 295, fig. 98.

Miller, L. H. 1911 C, 397, 400.
 1912 A, 75, 84, 113.
 1914 A, 36.
 1922 A, 123.
 1925 B, 79 (This species?).
 1927 A, 156.

Osborn, H. F. 1925 D, 542.

Recent: Oregon to southern Lower California: Pleistocene; California.

Lophortyx sp. indet.

Miller, L. H. 1912 A, 112. Pleistocene (La Brea); California.

PHASIANIDÆ Vigors.

Vigors, N. A. 1825 A, 480.

Hay, O. P. 1902 A, 534.

A. O. U. 1910 A, 387.

Arldt, T. 1907 D, 673.
 1912 A, 710.

Blanchard, E. 1857 A, 97 ("faisans").

Bonaparte, C. L. 1831 A, 33.
1832 A, 307.
Brauer, A. 1914 A, 283.
Carus, V. 1875 A, 323.
Chandler, A. C. 1916 C, 341.
Dabbene, R. 1910 A, 52.
Eimer, G. H. T. 1901 A, 229.
Evans, A. H. 1899 A, 198 (Phasianidæ); 198, 206 (Phasianinæ).
Fürbringer, M. 1902 B, 674 (Gallidæ).
Gadow, H. 1893 A, 172 (Phasianinæ).
Heilprin, A. 1887 A, 95, 100.
Hesse, H. 1907 A, 216.
Huxley, T. H. 1867 A, 432, 443.
1867 C, 251, 276.
1868 C, 299.
Knowlton, F. H. 1909 B, 276.
Lambrecht, K. 1921 A, 78 (Gallidæ).
Lebedinsky, N. G. 1913 A, 693.
Leunis and Ludwig 1883 A, 447.
Lobley, J. L. 1908 A, 201, 206.
Lühder, W. 1871 A, 330.
Lydekker, R. 1891 A, 135.
Magnus, H. 1871 A, 61.
Newton and Gadow 1896 A, 701.
Reichenow, A. 1913 A, 283.
Reynolds, S. H. 1897 A, 301, fig. 55 (Gallus).
Ridgway, R. 1887 A, 184, 205.
Seebohm, H. 1888 A, 424.
Shufeldt, R. W. 1904 B, 852.
1909 A, 378.
Steiner, H. 1918 A, 339 (Tetraonidæ); 357, 492 (Gallidæ).
Wallace, A. R. 1876 A, II, 339.
1894 A, 442.
Wetmore, A. 1923 A, 489.
Wetmore and Miller 1926 A, 342.

PHASIANINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 118.
Carus, V. 1875 A, 323.
Fürbringer, M. 1888 A, 1255.
Knowlton, F. H. 1909 B, 304.
Reichenow, A. 1913 A, 297.
Selenka, E. 1869 A, 58.

PHASIANUS Linnæus. Type *P. colchicus* Linnæus.

Linnæus, C. 1858 A, 158.
Adolphi, H. 1922 A, 131.
Bittner, F. 1912 A, 2.
Bronn, H. G. 1849 A, 698.
Cuvier, G. 1805 A.
Eyton, T. C. 1867 A, 167, pl. iii H.
Foote, J. S. 1916 A, 68, pl. vi.
Gegenbaur, C. 1871 A, 167.
Giebel, C. G. 1855 B, 36.
Knowlton, F. H. 1909 B, 310.
Köstlin, O. 1844 A (Fasianus).
Lambrecht, K. 1914 A, 66.
Mackie, S. J. 1863 C, 107.
Magnus, H. 1871 A, 49.
Miller, W. DeW. 1924 A, 5, fig. 1.
Ridgway, R. 1887 A, 205.
Weitzel, A. 1865 A, 333.

Phasianus alfhildæ Shufeldt.

Shufeldt, R. W. 1915 D, 71, pl. xii, figs. 79, 81, 85, 86.
Lambrecht, K. 1921 A, 85.
Middle Eocene (Bridger?); Wyoming.

Phasianus americanus Shufeldt.

Shufeldt, R. W. 1915 D, 58, pl. xii, figs. 83, 84.
Lambrecht, K. 1921 A, 84.
Upper Oligocene (Middle John Day); Oregon.

Phasianus mioceanus Shufeldt.

Shufeldt, R. W. 1915 D, 60, pl. xiii, figs. 94-96, 98.
Lambrecht, K. 1921 A, 84 (P. miocænus).
Miocene; Nebraska.

PALÆOPHASIANUS Shufeldt. Type *P. meleagroides* Shufeldt.

Shufeldt, R. W. 1913 C, 291.
Zittel and Schlosser 1923 A, 400.

Palæophasianus meleagroides Shufeldt.

Shufeldt, R. W. 1913 C, 291, pl. lviii, figs. 81-84, 86-88.
Lambrecht, K. 1921 A, 84.
Shufeldt, R. W. 1915 D, 50, 76, pl. ii, fig. 20.
Lower and Middle Eocene (Wasatch, Bridger); Wyoming.

MELEAGRIDÆ.

Hay, O. P. 1902 A, 534 (Phasianidæ).
A. O. U. 1910 A, 145.
Arldt, T. 1912 A, 754.
Blanchard, E. 1857 A, 97 ("dindons").
Chandler, A. C. 1916 C, 340.
Elliot, D. G. 1885 A, 222 (Meleagrinæ).
Evans, A. H. 1899 A, 198, 206.
Fürbringer, M. 1888 A, 1253 (Meleagrinæ).
Gadow, H. 1893 A, 172.
Gray, G. R. 1840 A, 60 (Meleagrinæ).
Hay, O. P. 1923 A, 312.
Howard, H. 1927 A, 1, 27.
Huxley, T. H. 1868 C, 299, 314.
Knowlton, F. H. 1909 B, 276.
Ridgway, R. 1887 A, 205.
Shufeldt, R. W. 1904 B, 852.
1913 H, 97.
1914 B, 3.
Wallace, A. R. 1876 A, II, 340.
Wetmore, A. 1923 A, 489.
Wetmore and Miller 1926 A, 342.

AGRIOCHARIS Chapman. Type *A. ocellata* (Temminck).

Chapman, F. M. 1896, Bull. Amer. Mus. Nat. Hist., VIII, 288.
Abel, O. 1926 B, 238.
Frost, F. H. 1927 A, 57.
Howard, H. 1927 A, 1-30, pls. i-xiii.
Lambrecht, K. 1914 A, 66.
Miller, L. H. 1921 C, 130.
Shufeldt, R. W. 1914 B, 1-48, pls. i-vi, ix-xiv.
Wetmore, A. 1924 A, 2, 8, 9.

Agriocharis sp. indet.

Wetmore, A. 1924 A, 2, 8, fig. 5. Pliocene? (San Pedro Valley); Arizona.

PARAPAVO Miller. Type *Pavo californicus* Miller.

Miller, L. H. 1916 A, 96.

The following citations, unless otherwise indicated, concern the genus *Pavo*.

Arldt, T. 1911 A, 214 ("pfau").
Beddard, F. E. 1898 A, 544.
Blanchard, E. 1857 A, 96 ("paons").
Dabbene, R. 1910 A, 88, fig. 58.
Eimer, G. H. T. 1901 A, 239.
Evans, A. H. 1899 A, 206.
Foote, J. S. 1916 A, 64, pl. v.
Howard, H. 1927 A, 1-30.
Kessler, K. T. 1841 A, 638.
Lambrecht, K. 1916 C, 498.
Lydekker, R. 1910 F, 667 (Pavo).
Meckel, J. F. 1825 A ("pfau").
Merriam, J. C. 1909 C, 12 ("peacock").
1915 G, 98 (Pavo).
Miller, L. H. 1912 A, 110.
1921 B, 263 (Parapavo).
1925 B, 66.
Owen, R. 1866 A, 27, 74, 81.
Selenka, E. 1869 A, pl. xiii, fig. 4 (Pavo).
Shufeldt, R. W. 1909 A, 172.
Wagner, R. 1843 A ("pfau").
Wetmore, A. 1924 A, 9.
Williston, S. W. 1910 G, 596 ("peacock").
Zittel and Schlosser 1923 A, 400 (Parapavo).

Parapavo californicus Miller, L. H.

Miller, L. H. 1909 A, 285, pl. xxv (Pavo).
Abel, O. 1912 F, 22 (Pavo).
1926 B, 238.
A. O. U. 1910 A, 388 (Pavo).
Frost, F. H. 1927 A, 57.
Gilbert, J. Z. 1910 B, 24 ("peacock").
Hay, O. P. 1927 D, 186.
Howard, H. 1927 A, 1-30, pls. i-xiii.
Lambrecht, K. 1921 A, 85.
Merriam, J. C. 1914 B, 7 ("peacock").
Miller, L. H. 1910 C, 11 (Pavo).
1912 A, 78, 97, 113 (Pavo).
1916 A, 89, 96, fig. 1.
1916 E, 171 (Pavo).
1921 C, 130.
1922 A, 123 ("Parapavo").
1923 A, 352 ("peacock").
1925 A, 310, 321 ("Parapavo").
1925 B, 80, pl. vi; text-figs. 6, 7.
1927 A, 156.
Osborn, H. F. 1910 B, 473 (Pavo).
1925 D, 542.
Swarth, H. S. 1915 A, 30 (Pavo).
Wetmore, A. 1928 A, 157.
Wyman, L. E. 1922 A, 31 (Pavo).
Pleistocene (La Brea); California.

MELEAGRIS Linnæus. Type *M. gallopavo* Linnæus.

Hay, O. P. 1902 A, 534.
Abel, O. 1912 F, 335.
Aeby, C. 1873 A, 702.
Allen, J. A. 1893 B, 99, 109.
Beddard, F. E. 1898 A, 542.
Bignon, F. 1889 A.
Carus and Engelmann 1861 A, 1767.
Chandler, A. C. 1916 C, 341.
Cuvier, G. 1805 A.
Eaton, G. F. 1910 F, 20, pl. ix, figs. 3, 4.
Eimer, G. H. T. 1901 A, 239.
Engelmann, O. 1910 A, 487.
Evans, A. H. 1899 A, 206.
Foote, J. S. 1921 A, 6, pl. i, fig. 9.
Fürbringer, M. 1888 A, pls. ii-iv, vi.
1902 B, 674.
Gegenbaur, C. 1871 A, 166.
Giebel, C. G. 1855 B, 35 ("truthahn").
Harting, P. 1866 A, 24.
Heilmann, G. 1913 B, 78, fig. 105.
Heilprin, A. 1887 A, 66.
Howard, H. 1927 A, 1-30.
Kessler, K. T. 1841 A, 638.
Knowlton, F. H. 1909 B, 278.
Leunis and Ludwig 1883 A, 453.
Lobley, J. L. 1908 A, 197, 214.
Meckel, J. F. 1825 A ("trathahn").
Miller, L. H. 1912 A, 110.
1916 A, 89, 95.
1925 B, 67.
Newton and Gadow 1896 A, 1074.
Norsa, E. 1895 A, 234.
Owen, R. 1866 B, 27.
1868 A, 892.
Prein, F. 1914 A, 678.
Reichenow, A. 1913 A, 304.
Ridgway, R. 1887 A, 205, 206, pl. lxi.
Scharff, R. F. 1911 A, 159.
Selenka, E. 1869 A, 62.
Shufeldt, R. W. 1887 A, 208.
1909 A, 377.
1913 H, 94.
1914 B, 2.
Sippel, W. 1907 A, 505, fig. 7.
Taschenberg, O. 1899 A, 4145.
Wallace, A. R. 1876 A, I, 163.
Weitzel, A. 1865 A, 334.
Wetmore, A. 1924 A, 9.

Meleagris antiqua Marsh.

Hay, O. P. 1902 A, 534 (M. antiquus).
A. O. U. 1910 A, 388.
Lambrecht, K. 1921 A, 78.
Miller, L. H. 1916 A, 95.

Shufeldt, R. W. 1913 A, 30, pl. iii, figs. 1, 2.
1913 H, 94, figs. 1, 2.
1915 D, 66.
Oligocene; (White River); Oregon.

Meleagris celer Marsh.

Hay, O. P. 1902 A, 534.
A. O. U. 1910 A, 388.
Lambrecht, K. 1921 A, 79.
Miller, L. H. 1916 A, 95.
Shufeldt, R. W. 1913 A, 30, pl. iii, figs. 3-5.
1913 H, 94, figs. 3-5.
1915 D, 66.
Pleistocene; New Jersey.

Meleagris gallopavo silvestris Vieillot.

Vieillot, L. J. P. 1817, Nouv. Dict. d'Hist. Nat., IX, 447 (M. silvestris).
A. O. U. 1910 A, 145.
Brown, B. 1908 A, 206 (M. gallopavo?).
Coues, E. 1884 A, 576 (M. gallopavo).
Eyton, T. C. 1867 A, 171 (M. gallopavo).
Foote, J. S. 1916 A, 68, pl. vi.
Frost, F. H. 1927 A, 57 (M. gallopavo).
Hay, O. P. 1923 A, 310, 311.
1924 D, 252 (This species?).
Howard, H. 1927 A, 1-30, pls. i-xiii (M. gallopavo).
Huxley, T. H. 1868 C, 300, fig. 5.
Knowlton, F. H. 1909 B, 278.
Leidy, J. 1889 H, 19 (M. gallopavo).
McIlhenney, E. A. 1913 A, 1-9, 146, 209, with figs. ("wild turkey").
Matthew, W. D. 1925 A, 97.
Ridgway, R. 1887 A, 207 (M. gallopavo).
Shufeldt, R. W. 1887 A, 208, figs. 1-7 (M. gallopavo).
1909 A, 210, 213, 215, figs. 31-36.
1913 A, 33.
1913 C, 299, pl. lviii, figs. 79, 80, 85; pl. lix.
1914 B, 25, pls. i-ix.
Shufeldt, R. W. 1918 A, 358 (M. gallopavo).
Recent; Great Plains to southern Maine, South Dakota to the Gulf of Mexico: Pleistocene; Florida, Arkansas.

Meleagris richmondi Shufeldt.

Shufeldt, R. W. 1915 D, 67, pl. ii, fig. 19.
Hay, O. P. 1927 D, 309.
Lambrecht, K. 1921 A, 78.
Pleistocene; California.

Meleagris superba Cope.

Hay, O. P. 1902 A, 534 (M. superbus).
A. O. U. 1910 A, 388.
Baker, F. C. 1920 A, 208, 213, 394 (M. superbus).
Cope, E. D. 1873 FF, 8.
Hay, O. P. 1923 A, 312 (M. superbus, M. altus).
Lambrecht, K. 1921 A, 79.
Miller, L. H. 1916 A, 95.
Peterson, O. A. 1926 A, 254, pl. xvii, figs. 1-10.
Shufeldt, R. W. 1913 A, 30.
1913 H, 94.
1915 D, 66, pl. x, figs. 71-73; pl. xi, figs. 74-77.
Pleistocene; New Jersey.

Meleagris sp. indet.

Hay, O. P. 1902 A, 534.
1923 A, 321. Pleistocene (Sangamon); Pennsylvania.
1927 D, 186, 223. Pleistocene; California.
Lambrecht, K. 1921 A, 79.
Mercer, H. C. 1894 A, 98 ("wild turkey"). Pleistocene; Pennsylvania.
Miller, L. H. 1911 C, 396, 400. Potter Creek Cave; California.
Osborn, H. F. 1925 D, 542. Pleistocene (La Brea); California.

Suborder Gruiformes.

Hay, O. P. 1902 A, 527 (Grallæ, in part).
Abel, O. 1919 A, 705.
Adolphi, H. 1922 A, 136.
Arldt, T. 1907 D, 656.
Blainville, H. M. D. 1821 A, 208 (Grallæ, in part).
Bonaparte, C. L. 1840 A, 28 (Grallæ, in part).
Burckhardt, R. 1902 A, 513.
Carus, V. 1875 A, 331 (Grallæ, in part).
Cope, E. D. 1891 N, 58, 60 (Grallæ, in part).
Coues, E. 1884 A, 666, 669.
Cuvier, G. 1805 A (Grallæ, in part).
Dabbene, R. 1910 A, 477.
Duméril, A. M. C. 1806 A, 58 (Grallæ, in part).
Evans, A. H. 1899 A, 243.
Fürbringer, M. 1888 A (Geranomorphæ, Gruiformes).
1902 B, 656, 669.
Gadow, H. 1893 A, 178.
1910 B, 977.
Hoernes, R. 1886 A, 642 (Grallæ, in part).
Huxley, T. H. 1867 C, 273 (Geranomorphæ).
Joleaud, L. 1920 A, 496.
Knowlton, F. H. 1909 B, 321.
Lambrecht, K. 1914 A, 67, 73.
Leunis and Ludwig 1883 A, 458 (Grallæ, in part).
Linnæus, C. 1758 A, 139 (Grallæ, in part).
Lobley, J. L. 1908 A, 198 (Grallæ, in part).
Lühder, W. 1871 A, 324 (Grallatores).
Lull, R. S. 1917 B, 337.
Lydekker, R. 1879 A, 26 (Geranomorphæ).
Meckel, J. F. 1825 A ("grallen").
Newton and Gadow 1896 A, 1068 (Geranomorphæ).
Parker, W. K. 1875 A, 699 (Geranomorphæ).
Pycraft, W. P. 1910 A, 52, 448.
Seebohm, H. 1888 A, 416, 422, 427 (Grallæ, in part).
Selenka, E. 1869 A (Grallæ, in part).
Sharpe, R. B. 1891 A, 79.
Shufeldt, R. W. 1894 A, 22 (Grallæ, in part).
1909 A, 227; 252 (Grallæ, in part).
Steiner, H. 1916 A, 499.
1918 A, 347, 441, 490.
Wagner, R. 1843 A, 79 (Grallæ, in part).
Wallace, A. R. 1876 A, i, 494; ii, 351-362 (Grallæ, in part).

Wetmore, A. 1927 A, 11.
Wetmore and Miller 1926 A, 342 (Megalornithiformes).
Zittel and Lucas 1902 A, 273 (Gallæ, in part).
Zittel and Schlosser 1911 A, 322 (Grallæ, in part).

Superfamily GRUOIDÆ, new name.

Hay, O. P. 1902 A, 527 (Gruoidea).
Beddard, F. E. 1898 A, 366 (Grues).
Fürbringer, M. 1902 B, 638 (Grues).
Lydekker, R. 1891 A, 160 (Fulicalariæ, Alectorides).
Sharpe, R. B. 1891 A, 74 (Grues).
Shufeldt, R. W. 1894 A, 33 (Gruioidea).
    1904 B, 851 (Gruoidea).

GRUIDÆ Vigors.

Vigors, N. A. 1825 A, 488.
Hay, O. P. 1902 A, 527.
Abel, O. 1926 B, 239 ("kraniche").
Adolphi, H. 1922 A, 143.
Arldt, T. 1907 D, 656.
    1912 A, 710, 754.
Beddard, F. E. 1898 A, 366.
Blatschke, F. 1904 A, 150 ("kraniche").
Bonaparte, C. L. 1831 A, 24 (Gruinæ).
    1832 A, 308 (Gruinæ).
Burckhardt, R. 1902 A, 513, 517.
Carus, V. 1875 A, 342.
Chandler, A. C. 1914 B, 141 (Grues).
    1916 C.
Evans, A. H. 1899 A, 251.
Forbes, W. A. 1881 A, 4.
Fürbringer, M. 1902 B, 656, 669.
Gadow, H. 1893 A, 184.
Garrod, A. H. 1873 C, 37.
    1873 D, 640.
    1874 A, 117.
Hesse, H. 1907 A, 210.
Huxley, T. H. 1867 A, 430 ("cranes").
    1867 C, 275 ("cranes").
    1868 C, 314, 317.
Knowlton, F. H. 1909 B, 327.
Lambrecht, K. 1914 A, 67.
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 477.
Lobley, J. L. 1908 A, 202, 207.
Lühder, W. 1871 A, 336 (Grues).
Lydekker, R. 1891 A, 160.
Martin, W. 1835 A, 156 ("cranes").
Mitchell, P. C. 1915 A, 413 ("cranes").
Parker, W. K. 1869 A, 503 ("cranes").
    1888 D, 467, 473.
Pycraft, W. P. 1902 A, 311 ("cranes").
    1910 A, 52 ("cranes").
Reichenow, A. 1913 A, 227.
Ridgway, R. 1887 A, 134.
Seebohm, H. 1888 A, 419, 429.
Shufeldt, R. W. 1894 A, 22.
    1904 B, 851.
    1915 C.
Steiner, H. 1916 A, 499 (Gruinæ).
    1918 A, 348, 441, 492.
Taschenberg, O. 1899 A, 4092.
Wallace, A. R. 1876 A, II, 356.
Wetmore, A. 1927 A, 11.

GRUINÆ Bonaparte.

Bonaparte, C. L. 1831 A, 34.
Knowlton, F. H. 1909 B, 328.
Wetmore and Miller 1926 A, 342 (Megalornithinæ).

GRUS Pallas. Type *Ardea grus* Linnæus.

Pallas, P. S. 1766, Misc. Zool., 66.
Hay, O. P. 1902 A, 527.
Adolphi, H. 1922 A, 143, fig. 46.
Allen, J. A. 1893 B, 99.
Arldt, T. 1907 D, 210, 213.
Beddard, F. E. 1898 A, 540.
Bignon, F. 1889 A, 300.
Bonsdorff, E. J. 1871 A, 311, pl. ii.
Chandler, A. C. 1916 C, 273, 350.
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 477.
Eimer, G. H. T. 1901 A, 232.
Evans, A. H. 1899 A, 254.
Fürbringer, M. 1888 A, pls. ii-iv, vi.
Garrod, A. H. 1873 C, 36.
    1876 A, 275.
Gegenbaur, C. 1871 A, 179.
Giebel, C. G. 1855 B, 30 ("kranich").
Gray, G. R. 1841, List of genera of birds, 85 (Megalornis).
Harting, P. 1866 A, 24.
Heilprin, A. 1887 A, 332, 333 ("crane").
Hesse, H. 1907 A, 210, pl. vii, fig. 3.
Kessler, K. T. 1841 A, 650, 686.
Knowlton, F. H. 1909 B, 329.
Lühder, W. 1871 A, 325.
Magnan, A. 1922 A, 131, pl. i (Megalornis).
Magnus, H. 1871 A, 24.
Meckel, J. F. 1825 A.
Mitchell, P. C. 1915 A, 421 (Grus).
Newton and Gadow 1896 A, 1069.
Owen, R. 1866 B, figs. 99, 100 ("crane").
    1868 A, 882.
Pallas, P. S. 1766, Misc. Zool., 527.
Peters, J. L. 1925 A, 120.
Reichenow, A. 1913 A, 228.
Ridgway, R. 1887 A, 134, pl. xxxix.
Shufeldt, R. W. 1895 A, 21, fig. 3.
    1915 C, 740.
Sundevall, C. J. 1886 A, 401.
Virchow, H. 1918 A, 105, figs. 1-11.
Wagner, R. 1843 A ("kraniche").
Weitzel, A. 1865 A, 337.

Grus americanus (Linnæus).

Linnæus, C. 1758 A, 142 (Ardea).
A. O. U. 1910 A, 100.
Hay, O. P. 1927 D, 150, 186.

Le Conte, J. 1882 B, 9 (This species?).
Louderback, G. D. 1907 A, 212 ("crane"?).
Miller, L. H. 1921 C, 130.
1925 B, 77.
1928 A, 120.
Stejneger, L. 1885 A, 123, fig. 59.
Recent; North America: Pleistocene (Early); California.

Grus canadensis (Linnæus).

Linnæus, C. 1758 A, 141 (Ardea).
Chandler, A. C. 1916 C, 348, pl. xxvi, fig. 50.
Hay, O. P. 1927 D, 186 (M. canadensis, M. minor).
Knowlton, F. H. 1909 B, 332.
Lambrecht, K. 1921 A, 65 (G. minor).
Merriam, J. C. 1909 C, 12, fig. ("crane").
Miller, L. H. 1910 A, 448 (G. canadensis); 446, fig. 1 (G. minor).
1912 A, 78, 113 (G. canadensis, G. minor).
1925 B, 76 (Grus canadensis, G. minor).
1928 A, 120.
Osborn, H. F. 1925 D, 542.
Shufeldt, R. W. 1894 A, 31, fig. 3.
Wetmore, A. 1928 C, 1 (Megalornis).
Recent; North America: Pleistocene (La Brea, McKittrick); California.

Grus marshi Shufeldt.

Shufeldt, R. W. 1915 D, 41, pl. xv, figs. 144-147.
Lambrecht, K. 1921 A, 64.
Middle Eocene (Bridger); Wyoming.

Grus mexicanus (Müller).

Müller, P. L. S. Natursyst. Suppl., 1776, 110 (Ardea).
Hay, O. P. 1902 A, 527 (Grus haydeni).
Lambrecht, K. 1921 A, 64 (Grus haydeni).
Peters, J. L. 1925 A, 120-122 (M. canadensis pratensis).
Shufeldt, R. W. 1915 D, 41, 65, 76, 77, pl. ii, fig. 21; pl. viii, fig. 67 (Grus haydeni).
A. O. U. 1910 A, 100.
Wetmore, A. 1928 A, 154 ("sandhill crane").
Recent; southern part of United States: Pliocene (Upper Snake Creek); Nebraska.

Grus prentici (Loomis).

Loomis, F. B. 1906 B, 481 (Gallinuloides).
Lambrecht, K. 1921 A, 64.
Loomis, F. B. 1907 B, 356 (Gallinuloides).
Shufeldt, R. W. 1915 D, 42.
Lower Eocene (Wasatch); Wyoming.

Grus proavus Marsh.

Hay, O. P. 1902 A, 527.
Lambrecht, K. 1921 A, 65.
Miller, L. H. 1910 A, 448 (G. parvus).
Shufeldt, R. W. 1915 D, 5, 41, 65, 77.
Pleistocene; New Jersey.

ALETORNIS Marsh. Type *A. nobilis* Marsh.

Hay, O. P. 1902 A, 527.
Shufeldt, R. W. 1915 D, 28.
Zittel and Schlosser 1911 A, 322.
1923 A, 399.

Aletornis bellus Marsh.

Hay, O. P. 1902 A, 527.
Lambrecht, K. 1921 A, 51 (Tringa).
Shufeldt, R. W. 1915 D, 29, pl. vi, fig. 46 (Aletornis); 76 (Tringa?).
Middle Eocene (Bridger); Wyoming.

Aletornis gracilis Marsh.

Hay, O. P. 1902 A, 527.
Lambrecht, K. 1921 A, 53 (Philohela).
Shufeldt, R. W. 1915 D, 30, 76, pl. vi, fig. 45 (To Philohela?).
Middle Eocene (Bridger); Wyoming.

Aletornis nobilis Marsh.

Hay, O. P. 1902 A, 528.
Lambrecht, K. 1921 A, 64 (Grus).
Shufeldt, R. W. 1915 D, 30, 76, pl. ii, fig. 15; pl. vi, fig. 43 (To Grus).
Middle Eocene (Bridger); Wyoming.

Aletornis pernix Marsh.

Hay, O. P. 1902 A, 528.
Lambrecht, K. 1921 A, 63.
Shufeldt, R. W. 1915 D, 31, 77, pl. vi, fig. 47.
Middle Eocene (Bridger); Wyoming.

Aletornis venustus Marsh.

Hay, O. P. 1902 A, 528.
Lambrecht, K. 1921 A, 68 (Fulica).
Shufeldt, R. W. 1915 D, 31, 76, pl. vi, fig. 41 (To Fulica?).
Middle Eocene (Bridger); Wyoming.

ARAMIDÆ.

A. O. U. 1910 A, 101.
Coues, E. 1884 A, 667.
Fürbringer, M. 1888 A, 1187-1196; 1201-1203.
Garrod, A. H. 1876 A, 275, 3 figs. (Aramus).
Knowlton, F. H. 1909 B, 336 (Araminæ).
Ridgway, R. 1887 A, 134, 135.
Shufeldt, R. W. 1894 A, 23, 25, 26, 29, 33.
Stejneger, L. 1885 A, 127.
Wetmore, A. 1926 A, 1.

ARAMORNIS Wetmore. Type *A. longurio* Wetmore.

Wetmore, A. 1926 A, 1.
1928 C, 5.

Aramornis longurio Wetmore.

Wetmore, A. 1926 A, 1, figs. 1-4.
1926 E, 526 ("limpkin").
1928 A, 153.
Middle Miocene (Sheep Creek); Nebraska.

Suborder RALLIFORMES.

Coues, E. 1884 A, 669.
Dabbene, R. 1910 A, 487.
Fürbringer, M. 1888 A, 1541, 1551, 1556.
1902 B, 664, 669.
Shufeldt, R. W. 1894 A, 25.
1904 B, 852.
1915 C, 731.

Superfamily RALLOIDÆ, new form.

Shufeldt, R. W. 1894 A, 33 (Rallioidea).
1904 B, 852 (Ralloidea).
Wetmore and Miller 1926 A, 342 (Rallides).

RALLIDÆ Vigors.

Vigors, N. A. 1825 A, 488.
Hay, O. P. 1902 A, 528.
Adolphi, H. 1922 A, 136.
Allen, J. A. 1871 A.
Arldt, T. 1907 D, 678.
1912 A, 686, 687, 710, 754.
Beddard, F. E. 1898 A, 323.
Bonaparte, C. L. 1831 A, 34.
1832 A, 309 (Macrodactyli, Rallidæ).
Brandt, J. F. 1840 A, 197.
Burckhardt, R. 1902 A, 513 (Ralli).
Carus, V. 1875 A, 339.
Chandler, A. C. 1916 C, 350, 391.
Cuvier, G. 1805 A ("rales").
Dabbene, R. 1910 A, 487.
Evans, A. H. 1899 A, 243.
Fürbringer, M. 1902 B, 665, 669.
Gadow, H. 1893 A, 182.
Garrod, A. H. 1873 C, 38.
1873 D, 640.
1874 A, 116, 121.
Gegenbaur, C. 1871 A, 186 ("ralliden").
Heilmann, G. 1915 A, 97.
Hesse, H. 1907 A, 210.
Hilzheimer, M. 1913 A, 517.
Hoernes, R. 1886 A, 643.
Huxley, T. H. 1867 A, 430 ("rails").
Huxley, T. H. 1867 C, 274 ("rails").
Knowlton, F. H. 1909 B, 321.
Lambrecht, K. 1914 A, 67.
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 473.
Lobley, J. L. 1908 A, 202, 207.
Lühder, W. 1871 A, 324.
Lydekker, R. 1891 A, 144.
Magnus, H. 1871 A.
Newton and Gadow 1896 A, 1080 (Rallus).
Owen, R. 1866 B, 26 ("rails").
Parker, W. K. 1869 A, 504 ("rails").
1890 A, 57.
Pycraft, W. P. 1900 C, 1019 ("rails").
1910 A, 52, 444 ("rails").
Reichenow, A. 1913 A, 201.
Ridgway, R. 1887 A, 134, 136.
Seebohm, H. 1888 A, 418, 429.
Shufeldt, R. W. 1894 A, 21.
1904 B, 852.
1915 C.
Steiner, H. 1918 A, 348, 440.
Taschenberg, O. 1899 A, 4264.
Wallace, A. R. 1876 A, II, 351.
Weitzel, A. 1865 A, 338 (Rallus).
Wetmore, A. 1927 A, 11.
Wetmore and Miller 1926 A, 342.

FULICINÆ.

A. O. U. 1910 A, 106.
Coues, E. 1884 A, 676.
Reichenow, A. 1913 A, 216.
Shufeldt, R. W. 1894 A, 25.
Wetmore and Miller 1926 A, 342.

FULICA Linnæus. Type *F. atra* Linnæus.

Linnæus, C. 1758 A, 152.
Hay, O. P. 1902 A, 528.
Adolphi, H. 1922 A, 141.
Allen, J. A. 1893 B, 99.
Beddard, F. E. 1898 A, 540.
Bittner, F. 1912 A, 5.
Brandt, J. F. 1840 A, 174, 197, 200, 202, pl. xi, figs. 1-7.
Bronn, H. G. 1848 A, 506.
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 476.
Diethelm, M. 1907 A, 41.
Eimer, G. H. T. 1901 A, 207.
Evans, A. H. 1899 A, 250.
Eyton, T. C. 1867 A, 201.
Fürbringer, M. 1888 A, pls. ii, vi, vii.
Gegenbaur, C. 1871 A, 186.
Heilmann, G. 1926 A, 97, fig. 79.
Hesse, H. 1907 A, 211, pl. x, fig. 14.
Hommes, J. H. 1924 A, 15.
Kessler, K. T. 1841 A, 657, 688.
Knopfli, W. 1917 A, 51.
Knowlton, F. H. 1909 B, 326.
Köstlin, O. 1844 A.
Lambrecht, K. 1914 A, 67, pl. viii.
Lebedinsky, N. G. 1917 A, 331, figs. 17, 18.
Leunis and Ludwig 1883 A, 475.
Lühder, W. 1871 A, 329.
Mackie, S. J. 1863 C, 109 (This genus?).
Magnus, H. 1871 A.
Meckel, J. F. 1825 A.
Newton and Gadow 1896 A, 1068.
Retterer, E. 1908 A, 487.
Ridgway, R. 1887 A, 136, 141, pl. xl.
Selenka, E. 1869 A, 40, 42.
Shufeldt, R. W. 1894 A, 29, 32.
1915 C, 739.
Taschenberg, O. 1899 A, 4063.
Voit, M. 1923 A, 69.
Wagner, R. 1843 A.
Weitzel, A. 1865 A, 339.

Fulica americana Gmelin.

Gmelin, J. F. 1789, Syst. Nat. I, II, 704.
Hay, O. P. 1902 A, 528.
1927 D, 244.
Knowlton, F. H. 1909 B, 326, fig. 107.
Miller, L. H. 1912 A, 81, 113.
Shufeldt, R. W. 1913 B, 175, pl. xxxix, fig. 480.
Recent; whole of North America: Pleistocene (Fossil Lake); Oregon.

Fulica minor Shufeldt.

Hay, O. P. 1902 A, 528.
1927 D, 244.
Lambrecht, K. 1921 A, 69.
Miller, L. H. 1912 A, 81, 113.
Shufeldt, R. W. 1913 B, 155.
Pleistocene (Fossil Lake); Oregon.

RALLINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 119.
A. O. U. 1910 A, 101.
Coues, E. 1884 A, 670.
Fürbringer, M. 1888 A, 1235.
Reichenow, A. 1913 A, 202.
Sundevall, C. J. 1886 A, 404.
Wetmore and Miller 1926 A, 342.

RALLUS Linnæus. Type *R. aquaticus* Linnæus.

Linnæus, C. 1758, A, 153.
A. O. U. 1910 A, 101.
Brandt, J. F. 1840, 174, 197.
Coues, E. 1884 A, 671.
Fürbringer, M. 1888 A, pls. iv, vii.
Knowlton, F. H. 1909 B, 321.
Lydekker, R. 1891 A, 144.
Magnan, A. 1922 A, 171.
Reichenow, A. 1913 A, 212, fig. 114.
Ridgway, R. 1887 A, 136, pl. xl.
Shufeldt, R. W. 1894 A, 28, fig. 2.
Zittel, K. A. 1890 A, 846.

Rallus virginianus Linnæus.

Linnæus, C. 1766, Syst. Nat. ed. 12, I, 263.
A. O. U. 1910 A, 103.
Coues, E. 1884 A, 673.
Hay, O. P. 1927 D, 198.
Knowlton, F. H. 1909 B, 321.
Miller, L. H. 1925 A, 320.
Osborn, H. F. 1925 D, 542.
Recent; North America: Pleistocene (McKittrick); California.

CRECCOIDES Shufeldt. Type *C. osbornii* Shufeldt.

Hay, O. P. 1902 A, 528.

Creccoides osbornii Shufeldt.

Hay, O. P. 1902 A, 528.
Dumble, E. T. 1894 A, 559.
Gidley, J. W. 1903 C, 627.
Lambrecht, K. 1921 A, 67 (Crecoides).
Pliocene (Blanco); Texas.

TELMATORNIS Marsh. Type *T. priscus* Marsh.

Hay, O. P. 1902 A, 528.
Arldt, T. 1907 D, 86.
Fürbringer, M. 1888 A, 1141.
1902 B, 629.
Lambrecht, K. 1916 C, 493.
Shufeldt, R. W. 1915 D, 25.
Van den Broeck, E. 1900 A, 77.
Wetmore, A. 1928 A, 150.
Young, G. W. 1915 A, 250.
Zittel and Schlosser 1911 A, 323.
1923 A, 399.

Telmatornis affinis Marsh.

Hay, O. P. 1902 A, 528.
Lambrecht, K. 1921 A, 69.
Shufeldt, R. W. 1915 D, 27, 77, pl. vi, fig. 36.
Upper Cretaceous (Hornerstown?); New Jersey.

Telmatornis priscus Marsh.

Hay, O. P. 1902 A, 528.
Lambrecht, K. 1921 A, 69.
Shufeldt, R. W. 1915 D, 26, 77, pl. vi, fig. 37.
Upper Cretaceous; New Jersey.

Telmatornis rex Shufeldt.

Shufeldt, R. W. 1915 D, 27, 77, pl. xiii, fig. 101.
Lambrecht, K. 1921 A, 70.
Upper Cretaceous; New Jersey.

GALLINULINÆ Gray.

Gray, G. R. 1840, List of genera of birds, 72.
A. O. U. 1910 A, 105.
Coues, E. 1884 A, 675.
Fürbringer, M. 1888 A, 1235.
Knowlton, F. H. 1909 B, 323 ("gallinules").
Reichenow, A. 1913 A, 213.
Shufeldt, R. W. 1894 A, 25, 29.

GALLINULA Brisson. Type *G. gallinula* Brisson.

Brisson, T. P. 1760, Orn., VI, 2.
A. O. U. 1910 A, 105.
Fürbringer, M. 1888 A, pl. iv.
Knowlton, F. H. 1909 B, 323.
Reichenow, A. 1913 A, 214.
Ridgway, R. 1887 A, 136, 141, pl. xlii.
Shufeldt, R. W. 1894 A, 28.

Gallinula sp. indet.

Hay, O. P. 1927 D, 136. Pleistocene; Arizona.
Wetmore, A. 1924 A, 11. Pliocene? (San Pedro Valley); Arizona.

PALÆOCREX Wetmore. Type *P. fax* Wetmore.

Wetmore, A. 1927 A, 9.

Palæocrex fax Wetmore.

Wetmore, A. 1927 A, 9, figs. 15-18.
1928 A, 152.
Oligocene (Chadron); Colorado.

Suborder CHARADRIIFORMES Garrod.

Garrod, A. H. 1874 A, 117, 122.
Hay, O. P. 1902 A, 526 (Grallæ, in part); 523 (Cecomorphæ, in part).
Adolphi, H. 1922 A, 330.
Arldt, T. 1907 D, 645.
Beddard, F. E. 1898 A, 336, fig. 169 (Limicolæ).
Blainville, H. M. D. 1821 A, 208 (Grallæ, in part).
Bonaparte, C. L. 1840 A, 28 (Grallæ, in part).
Carus, V. 1875 A, 331 (Grallæ, in part).
Chandler, A. C. 1914 B, 141 (Limicolæ).
Cope, E. D. 1891 N, 60 (Grallæ, in part).
Cuvier, G. 1805 A (Grallæ, in part).
Dabbene, R. 1910 A, 472.
Duméril, A. M. C. 1806 A, 58 (Grallæ, in part).
Evans, A. H. 1899 A, 268.
Fürbringer, M. 1888 A (Charadriomorphæ, Charadriiformes, Limicolæ).
1902 B, 650 (Charadriornithes); 669 (Charadriiformes).
Gadow, H. 1893 A, 194.
1910 B, 977.
Gaupp, E. 1905 D, 1026 (Grallæ).
Hilzheimer, M. 1913 A, 517 (Charadriornithes).
Hoernes, R. 1886 A, 642 (Grallæ, in part).
Huxley, T. H. 1867 A, 457 (Charadriomorphæ).
1868 B, 361 (Charadriomorphæ).
Knopfli, W. 1917 A, 51 (Laro-Limicolæ).
Knowlton, F. H. 1909 B, 350.
Lambrecht, K. 1914 A, 68, 73.
Lebedinsky, N. G. 1913 A.
1918 A, 37 (Charadriformes).
1918 B, 142, 146.
Linnæus, C. 1758 A, 139 (Grallæ, in part).
Lobley, J. L. 1908 A, 198 (Grallæ, in part).
Lühder, W. 1871 A, 324 (Grallatores).
Lydekker, R. 1879 A, 26 (Charadriomorphæ).
1891 A, 168 (Limicolæ).
Marinelli, W. 1928 A, 155.
Meckel, J. F. 1825 A ("grallen").
Miller, W. D. 1924 A, 2 ("sandpipers").
Parker, W. K. 1875 A, 699, 713 (Charadriomorphæ).
Pycraft, W. P. 1910 A, 52, 53, 445.
Ridgway, R. 1887 A, 143 (Limicolæ).
1919 A, 1.
Seebohm, H. 1888 A, 416, 422, 427 (Grallæ, in part).
Selenka, E. 1869 A (Grallæ, in part).
Sharpe, R. B. 1891 A, 72.
Shufeldt, R. W. 1894 A, 22 (Grallæ, in part).
1903 A, 70.
1904 B, 851.
1909 A, 171, 227 (Charadriomorphæ); 252 (Grallæ, in part).
Steiner, H. 1918 A, 328.
1922 A, 343 (Laro-Limicolæ).
Stejneger, L. 1885 A, 85 (Pluviales).
Vialleton, L. 1916 A, 6.
Wagner, R. 1843 A, 79 (Grallæ, in part).
Wallace, A. R. 1876 A, I, 494; II, 351-362. (Grallæ, in part).
Wetmore and Miller 1926 A, 343.
Zittel, K. A. 1890 A, 855.
Zittel and Lucas 1902 A, 273 (Grallæ, in part).
Zittel and Schlosser 1911 A, 322 (Grallæ).
1923 A, 399 (Grallæ).

Superfamily CHARADRIOIDÆ, new name.

Hay, O. P. 1902 A, 526 (Scolopacoidea).
Adolphi, H. 1922 A, 330 (Limicolæ).
Beddard, F. E. 1898 A, 336, fig. 169 (Limicolæ).
Chandler, A. C. 1916 C (Limicolæ).
Clark, H. L. 1901 A, 377 (Scolopacoidea).
Evans, A. H. 1889 A, 268 (Limicolæ).
Fürbringer, M. 1902 B, 638 (Limicolæ).
Gadow, H. 1893 A, 195 (Limicolæ).
1910 B, 977 (Limicolæ).
Garrod, A. H. 1873 C, 37 (Limicolæ).
Gervais, P. 1856 A, 13 ("limicoles").
Gegenbaur, C. 1871 A, 184 ("scolopacinen").
Huxley, T. H. 1867 C, 273 (Charadriomorphæ).
Knowlton, F. H. 1909 B, 351 (Limicolæ).
Lambrecht, K. 1914 A, 68 (Limicolæ).
Pycraft, W. P. 1901 A, 349 (Charadrii).
Reichenow, A. 1913 A, 165 (Limicolæ).
Ridgway, R. 1919 A, 24 (Charadrii).
Sharpe, R. B. 1891 A, 73 (Charadrii).
Shufeldt, R. W. 1903 A, 15, 70 (Limicolæ).
1904 B, 851 (Limicolæ).
1909 A, 227 (Limicolæ).
1915 C, 733 (Limicolæ).
Steiner, H. 1918 A, 328, 441, 492 (Limicolæ).
Wetmore and Miller 1926 A, 343 (Charadrii, Charadriides).

CHARADRIIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 33 (Charadridæ).
Hay, O. P. 1902 A, 526.
Adolphi, H. 1922 A, 330 (Charadriinæ).
Allen, J. A. 1871 A (Charadridæ).
Altmann, F. 1925 A, 102, figs. 16-20 (Vanellus).
Arldt, T. 1907 D, 645.
1912 A, 686, 687, 708, 754.
Bonaparte, C. L. 1832 A, 308 (Pressirostres, Charadridæ).
Carus, V. 1875 A, 337.
Chandler, A. C. 1916 C, 357.
Dabbene, R. 1910 A, 472.
Evans, A. H. 1899 A, 272.
Forbes, W. A. 1882 A, 389.

Forbes, W. A. 1882 E, 388.
Fürbringer, M. 1888 A, 1420.
1902 B, 650, 669.
Gadow, H. 1893 A, 200.
Garrod, A. H. 1874 A, 117, 123.
Gegenbaur, C. 1871 A, 184 (Charadriadæ).
Graul, W. 1907 A, 154, pls. vi, vii (Vanellus).
Heilmann, G. 1913 B, 69.
Hesse, H. 1907 A, 207.
Huxley, T. H. 1867 A, 430, 455.
Knowlton, F. H. 1909 B, 351.
Leunis and Ludwig 1883 A, 466.
Lobley, J. L. 1908 A, 202, 207.
Lühder, W. 1871 A, 327 (Charadriadæ).
Magnus, H. 1871 A (Charadriadæ).
Newton and Gadow 1896 A, 733.
Pycraft, W. P. 1910 A, 53, 445.
Reichenow, A. 1913 A, 166.
Ridgway, R. 1887 A, 143, 172.
1919 A, 61.
Seebohm, H. 1888 A, 415, 418.
Shufeldt, R. W. 1903 A, 70.
1904 B, 851.
Steiner, H. 1916 A, 493 (Grallæ).
1918 A, 328, 492.
Sundevall, C. J. 1886 A, 404 (Charadriacæ).
Sushkin, P. P. 1899 B, 153.
Vigors, N. A. 1825 A, 489 (Charadriadæ).
Wallace, A. R. 1876 A, II, 355.
Weitzel, A. 1865 A, 338 (Charadrius).
Wetmore and Miller 1926 A, 343.

CHARADRIINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 118 (Charadrinæ).
Adolphi, H. 1922 A, 330 (Charadriidæ).
Fürbringer, M. 1888 A, 1420.
Knowlton, F. H. 1909 B, 370 ("true plovers").
Reichenow, A. 1913 A, 171.
Wetmore and Miller 1926 A, 343.

CHARADRIUS Linnæus. Type *Tringa squatarola* Linnæus.

Hay, O. P. 1902 A, 526.
Abel, O. 1912 F, 284.
Adolphi, H. 1922 A, 330.
Allen, J. A. 1893 B, 99, 108.
Arldt, T. 1907 D, 155, 213.
Beddard, F. E. 1898 A, 537, fig. 168.
Bignon, F. 1889 A.
Blainville, H. M. D. 1821 A, 210 (Charadrias).
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 472, figs. 37, 48.
Foote, J. S. 1916 A, 62, pl. v.
Garrod, A. H. 1873 C, 36.
Hesse, H. 1907 A, 207.
Kessler, K. T. 1841 A, 645.
Knowlton, F. H. 1909 B, 357.
Köstlin, O. 1844 A.
Leunis and Ludwig 1883 A, 469.
Magnan, A. 1922 A, 169, pls. i, xiii, xiv.
Meckel, J. F. 1825 A.
Newton and Gadow 1896 A, 1063.
Owen, R. 1866 B, 86.
Ridgway, R. 1887 A, 172, pl. liv.
1919 A, 114.
Selenka, E. 1869 A.
Shufeldt, R. W. 1903 A, 21, figs. 1-9.
Sundevall, C. J. 1886 A.
Wagner, R. 1843 A.
Zittel and Schlosser 1911 A, 322.
1923 A, 399.

Charadrius sheppardianus Cope.

Hay, O. P. 1902 A, 526.
Cockerell, T. D. A. 1906 A, 163.
Lambrecht, K. 1916 C, 491.
1921 A, 50.
Wetmore, A. 1928 A, 152.
Miocene (Florissant); Colorado.

OXYECHUS Reichenbach. Type *Charadrius vociferus* Linnæus.

Reichenbach, H. G. 1852, Syst. Avium, XVIII.
A. O. U. 1910 A, 128.
Coues, E. 1884 A, 600 (Ægialites).
Ridgway, R. 1887 A, 174, pls. lii, liii (Ægialitis).

Oxyechus vociferus (Linnæus).

Linnæus, C. 1758 A, 150 (Charadrius).
A. O. U. 1910 A, 128.
Coues, E. 1884 A, 600, fig. 419 (Ægialites).
Hay, O. P. 1927 D, 198.
Knowlton, F. H. 1909 B, 356, fig. 118.
Miller, L. H. 1925 A, 321.
Osborn, H. F. 1925 D, 542.
Ridgway, R. 1887 A, 174 (Ægialitis).
Recent; North and South America: Pleistocene (McKittrick); California.

SCOLOPACIDÆ Vigors.

Vigors, N. A. 1825 A, 488.
Hay, O. P. 1902 A, 526.
Abel, O. 1919 A, 707 (Charadriformes).
Arldt, T. 1907 D, 681.
Blainville, H. M. D. 1821 A, 210 ("courlis").
Bonaparte, C. L. 1831 A, 34.
1832 A, 309 (Limicolæ, Scolopacidæ).
Carus, V. 1875 A, 334.
Cuvier, G. 1805 A ("bécasses").
Giebel, C. G. 1855 B, 31 ("schnepfen").
Hesse, H. 1907 A, 207.
Hoernes, R. 1886 A, 643.
Leunis and Ludwig 1883 A, 459.
Lobley, J. L. 1908 A, 202, 207.
Lühder, W. 1871 A, 327.
Lydekker, R. 1891 A, 171.
Magnus, H. 1871 A.
Marinelli, W. 1928 A, 135, pl. xiv; text-figs. 1, 2 ("schnepfe").
Pycraft, W. P. 1893 A, 364.
Reichenow, A. 1913 A, 183.
Ridgway, R. 1887 A, 143, 147.
1919 A, 143.
Shufeldt, R. W. 1893 B, 563.

Shufeldt, R. W. 1903 A, 70.
1904 B, 851.
Steiner, H. 1916 A, 493 (Limicola).
Taschenberg, O. 1899 A, 4275.
Wallace, A. R. 1876 A, II, 353.
Weitzel, A. 1865 A, 338 (Scolopax).
Wetmore and Miller 1926 A, 343.

SCOLOPACINÆ Bonaparte.

Bonaparte, C. L. 1831 A, 34.
Adolphi, H. 1922 A, 243.
Bonaparte, C. L. 1838 B, 119.
Fürbringer, M. 1888 A, 1217-1420.
Gadow, H. 1893 A, 201.
Huxley, T. H. 1867 A, 457.
Knowlton, F. H. 1909 B, 370.
Newton and Gadow 1896 A, 734.
Reichenow, A. 1913 A, 196.
Ridgway, R. 1887 A, 147.
Sundevall, C. J. 1886 A (Tringariæ).
Wetmore and Miller 1926 A, 343.

MACRORHAMPHUS T. Forster. Type *Scolopax grisea* (Gmelin).

Forster, T. 1817, Cat. Brit. Birds, 22.
A. O. U. 1910 A, 111.
Coues, E. 1884 A, 622.
Ridgway, R. 1887 A, 149, 150, pl. xlvi.

Macrorhamphus griseus (Gmelin).

Gmelin, J. F. 1889, Syst. Nat. I, ii, 658 (Scolopax).
Coues, E. 1884 A, 422, fig. 437.
Hay, O. P. 1927 D, 198.
Knowlton, F. H. 1909 B, 373.
Miller, L. H. 1925 A, 321.
1928 A, 120.
Osborn, H. F. 1925 D, 542.
Ridgway, R. 1887 A, 151.

Recent; Eastern North and South America: Pleistocene (McKittrick); California.

CAPELLA Frenzel. Type *Scolopax cœlestis* Frenzel.

Frenzel, J. S. T. 1801, Beschreib. Vög. u. ihrer Eyer. Wittenb., Naturges. Churkreises, 58.
Knowlton, F. H. 1909 B, 371 (Gallinago).
Koch, C. L. 1816, Syst. baier. Zool., I, 312 (Gallinago).
Leunis and Ludwig 1883 A, 460 (Gallinago).
Matthews and Iredale 1920, Austral Avian Rec., IV, 130-132.
Newton and Gadow 1896 A, 1068 (Gallinago).
Owen, R. 1866 B, 60 ("snipes").
Ridgway, R. 1887 A, 147, 150, pl. xlv (Gallinago).

Capella sp. indet.

Cope, E. D. 1871 I, 98 ("snipe").
1899 A, 280 (Gallinago).
Hay, O. P. 1923 A, 314 (Gallinago).
Wheatley, C. M. 1871 B, 385 ("Scolopax").

Pleistocene (Port Kennedy); Pennsylvania.

TRINGINÆ Bonaparte.

Bonaparte, C. L. 1840 A, 275.
Knowlton, F. H. 1909 B, 362.
Ridgway, R. 1887 A, 148.
Taschenberg, O. 1899 A, 4339 (Tringa).

PELIDNA Cuvier. Type *Tringa alpina* (Linnæus).

Cuvier, G. 1817, Règne Anim., 490.
A. O. U. 1910 A, 115.
Coues, E. 1884 A, 631.
Knowlton, F. H. 1909 B, 362 (Tringa).
Ridgway, R. 1887 A, 159 (Subgenus of Tringa).

Pelidna alpina (Linnæus).

Linnæus, C. 1758 A, 149 (Tringa).
A. O. U. 1910 A, 115.
Coues, E. 1884 A, 631, fig. 439.
Hay, O. P. 1927 D, 198.
Knowlton, F. H. 1909 B, 363 (Tringa).
Miller, L. H. 1925 A, 321.
1928 A, 120.
Osborn, H. F. 1925 D, 542.

Recent; Eastern Hemisphere; accidental in North America: Pleistocene (McKittrick); California.

MICROPALAMA Baird. Type *Tringa himantopus* Bonaparte.

Baird, S. F. Ann. Lyc. Nat. Hist., N. Y. 1826, 157.
A. O. U. 1910 A, 112.
Nichols, J. T. 1923 A, 592.
Ridgway, R. 1887 A, 149, 152, pl. xliii.
Wetmore, A. 1924 A, 13.

Micropalama hesterna Wetmore.

Wetmore, A. 1924 A, 11, figs. 6, 7.
Hay, O. P. 1927 D, 136.
Wetmore, A. 1928 A, 154.

Pliocene? (San Pedro Valley); Arizona.

TOTANUS Bechstein. Type *Scolopax totanus* Linnæus.

Bechstein, J. M. 1803, Orn. Taschenb. Deutchl., II, 282.
A. O. U. 1910 A, 120.
Coues, E. 1884 A, 638.
Fürbringer, M. 1888 A.
Huxley, T. H. 1867 A, 430.
Lydekker, R. 1891 A, 172.
Nichols, J. T. 1923 A, 592.
Owen, R. 1866 B, 26.
Ridgway, R. 1887 A, 149, 164, pl. L.
Taschenberg, O. 1899 A, 4336.
Zittel, K. A. 1890 A, 845.

Totanus melanoleucus (Gmelin).

Gmelin, J. F. 1789, Syst. Nat., I, ii, 659 (Scolopax).
A. O. U. 1910 A, 120.
Coues, E. 1884 A, 638, fig. 445.
Hay, O. P. 1927 D, 198.
Knowlton, F. H. 1909 B, 365.
Miller, L. H. 1925 A, 321.
1928 A, 120.
Osborn, H. F. 1925 D, 542.
Ridgway, R. 1887 A, 165.

Recent; North and South America: Pleistocene (McKittrick); California.

LIMOSA Brisson. Type *Scolopax limosa* Linnæus.

Brisson, M. J. 1760, Orn., v, 261.
A. O. U. 1910 A, 118.
Coues, E. 1884 A, 616, 634.
Knowlton, F. H. 1909 A, 364.
Lambrecht, K. 1914 A, 68.
Owen, R. 1866 B, 23.
Ridgway, R. 1887 A, 149, 162, pl. xlix.
Weitzel, A. 1865 A, 338.

Limosa vanrossemi Miller.

Miller, L. H. 1925 C, 116, pl. vi.
Wetmore, A. 1928 A, 153.

Miocene (Temblor); California.

PALÆOTRINGA Marsh. Type *P. littoralis* Marsh.

Hay, O. P. 1902 A, 527.
Fürbringer, M. 1888 A, 1141.
1902 B, 629.
Heilprin, A. 1887 A, 330.
Van den Broeck, E. 1900 A, 77.
Wetmore, A. 1928 A, 150.
Zittel and Schlosser 1911 A, 323.
1923 A, 398.

Position in this subfamily doubtful.

Palæotringa littoralis Marsh.

Hay, O. P. 1902 A, 527.
Lambrecht, K. 1921 A, 56.
Shufeldt, R. W. 1915 D, 23, 77, pl. vi, fig. 35.

Upper Cretaceous (Hornerstown); New Jersey.

Palæotringa vagans Marsh.

Hay, O. P. 1902 A, 527.
Lambrecht, K. 1921 A, 56.
Shufeldt, R. W. 1915 D, 24, 77, pl. vi, fig. 40; 76 (Phalacrocorax).

Upper Cretaceous (Hornerstown?); New Jersey.

Palæotringa vetus Marsh.

Hay, O. P. 1902 A, 527.
Lambrecht, K. 1916 C, 492.
1921 A, 56.
Shufeldt, R. W. 1915 D, 24, 76, pl. viii, fig. 59.
Wetmore, A. 1928 A, 148.

Upper Cretaceous; New Jersey.

LIMICOLAVIS Shufeldt. Type *L. pluvianella* Shufeldt.

Shufeldt, R. W. 1915 D, 55.

Position in this subfamily doubtful.

Limicolavis pluvianella Shufeldt.

Shufeldt, R. W. 1915 D, 55, pl. xv, fig. 129.
Lambrecht, K. 1921 A, 55.

Oligocene?; Oregon.

RECURVIROSTRIDÆ Bonaparte.

Bonaparte, C. L. 1840 A, 276.
A. O. U. 1910 A, 109.
Bonaparte, C. L. 1831 A, 34 (Recurvirostrinæ).
Coues, E. 1884 A, 609.
Knowlton, F. H. 1909 B, 358.
Ridgway, R. 1887 A, 143, 146.
Stejneger, L. 1885 A, 107 (Recurvirostrinæ).
Wetmore and Miller 1926 A, 343.

RECURVIROSTRA Linnæus. Type *R. avocetta* Linnæus.

Linnæus, C. 1858 A, 151.
A. O. U. 1910 A, 108.
Coues, E. 1884 A, 610.
Fürbringer, M. 1888 A, 140, 145, 168, pls. ii, iv, vii.
Huxley, T. H. 1867 A, 457.
Knowlton, F. H. 1909 B, 358.
Owen, R. 1866 B, 61.
Selenka, E. 1869 A, 19.
Wetmore, A. 1926 B, 397.

Recurvirostra americana Gmelin.

Gmelin, J. F. 1789, Syst. Nat. I, II, 693.
A. O. U. 1910 A, 108.
Coues, E. 1884 A, 611, fig. 424.
Hay, O. P. 1927 D, 198.
Knowlton, F. H. 1909 B, 358, fig. 119.
Miller, L. H. 1925 A, 320.

Recent; North America: Pleistocene (McKittrick); California.

PHALAROPODIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 34.
Coues, E. 1884 A, 612.
Knowlton, F. H. 1909 B, 360 ("phalaropes").
Ridgway, R. 1887 A, 143.
Shufeldt, R. W. 1903 A, 17 ("phalaropes"); 70.
1904 B, 851.
Weitzel, A. 1865 A, 338 (Phalaropus).
Wetmore and Miller 1926 A, 343.

LOBIPES Cuvier. Type *Tringa lobata* Linnæus.

Cuvier, G. 1817 Règne Anim., I, 495.
Hay, O. P. 1902 A, 527 (Phalaropus).
A. O. U. 1910 A, 107.
Coues, E. 1884 A, 613.
Cuvier, G. 1805 A (Phalaropus).
Newton and Gadow 1896 A, 1078 (Phalaropus).

Lobipes lobatus (Linnæus).

Linnæus, C. 1758 A, 148, 824 (Tringa).
Hay, O. P. 1902 A, 527 (Phalaropus).
A. O. U. 1910 A, 107.
Coues, E. 1884 A, 613 (L. hyperboreus).
Hay, O. P. 1927 D, 244.
Miller, L. H. 1912 A, 81, 113.
Shufeldt, R. W. 1903 A, 17 (Phalaropus).
1913 B, 155.
Recent; Northern and Southern hemispheres: Pleistocene (Fossil Lake); Oregon.

ŒDICNEMIDÆ.

Fürbringer, M. 1888 A, 1217-1220.
Knowlton, F. H. 1909 B, 380.
Lydekker, R. 1891 A, 169.
Reichenow, A. 1913 A, 181 (Œdicneminæ).
Wetmore, A. 1927 A, 11.

BATHORNITHINÆ Wetmore.

Wetmore, A. 1927 A, 13.

BATHORNIS Wetmore. Type *B. veredus* Wetmore.

Wetmore, A. 1927 A, 11.

Bathornis veredus Wetmore.

Wetmore, A. 1927 A, 11, figs. 19-24.
1928 A, 152.
Oligocene (Chadron); Colorado.

PRESBYORNITHIDÆ Wetmore.

Wetmore, A. 1926 B, 396.

PRESBYORNIS Wetmore. Type *P. pervetus* Wetmore.

Wetmore, A. 1926 B, 396.
1928 A, 151.

Presbyornis pervetus Wetmore.

Wetmore, A. 1926 B, 396, pl. xxxvii, figs. 10-20.
Eocene (Green River); Utah.

Superfamily LAROIDÆ, new form.

Hay, O. P. 1902 A, 525 (Laroidea).
Adolphi, H. 1922 A, 350 (Lari).
Bonaparte, C. L. 1832 A, 310 (Longipennes).
Dabbene, R. 1910 A, 479 (Lariformes).
Gadow, H. 1893 A, 205 (Lari).
1910 B, 977 (Lari).
Huxley, T. H. 1867 A, 457 (Cecomorphæ, in part).
Knowlton, F. H. 1909 B, 385 (Lari).
Lebedinsky, N. G. 1913 A (Lariformes).
Lydekker, R. 1891 A, 176 (Gaviæ).
Parker, W. K. 1875 A, 699 (Cecomorphæ, in part).
Pycraft, W. P. 1901 A, 349 (Lari).
Ridgway, R. 1919 A, 3, 447 (Lari).
Sharpe, R. B. 1891 A, 72 (Lariformes).
Shufeldt, R. W. 1893 D, 233 (Longipennes).
1904 B, 850 (Lariformes).
Steiner, H. 1918 A, 332, 441, 492 (Lari).
Vieillot, J. 1816, Analyse Ornith. elem., 16 (Pelagii).
Wetmore and Miller 1926 A, 343 (Lari).

LARIDÆ Vigors.

Vigors, N. A. 1825 A, 498.
Hay, O. P. 1902 A, 525.
Adolphi, H. 1922 A, 350.
Allen, J. A. 1871 A.
A. O. U. 1910 A, 35.
Arldt, T. 1907 D, 661.
1912 A, 686, 687, 708, 754.
Beddard, F. E. 1896 A, 542, 543.
1898 A, 350.
Bittner, F. 1912 A, 2.
Bonaparte, C. L. 1831 A, 34.
1832 A, 310 (Laridæ, Larinæ).
Brandt, J. F. 1840 A, 92, 165, 185.
Bruch, P. 1853 A, 96.
Carus, V. 1875 A, 361.
Chandler, A. C. 1916 C, 356, 391.
Evans, A. H. 1899 A, 300.
Forbes, W. A. 1881 A, 4.
1882 D, 62.
Fürbringer, M. 1902 B, 650, 669.
Gadow, H. 1893 A, 201.
Garrod, A. H. 1873 C, 37.
1874 A, 117.
Gervais, P. 1856 A, 13 ("laridés").
Hesse, H. 1907 A, 202.
Huxley, T. H. 1867 A, 430, 458.
1867 C, 274.
Knowlton, F. H. 1909 B, 386 (Larinæ).
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 506.
Lilienthal, G. 1917 A, 266, figs. 5, 6 ("möven").
Lobley, J. L. 1908 A, 202, 207.
Lühder, W. 1871 A, 324, 329.
Lydekker, R. 1891 A, 177.

Magnus, H. 1871 A.
Mehnert, E. 1887 B, 212 ("lariden").
Miller, L. H. 1924 A, 173.
Newton and Gadow 1896 A, 1069 ("gulls").
Owen, R. 1866 B, 70 ("gulls").
Parker, W. K. 1888 D, 469, 470.
1890 A, 3, 57.
Pycraft, W. P. 1910 A, 54.
Reichenow, A. 1913 A, 106.
Reynolds, S. H. 1897 A, 328, 335 ("gulls").
Ridgway, R. 1887 A, 20, 23.
Ridgway, R. 1919 A, 561.
Saunders, H. 1878 A, 83.
Seebohm, H. 1888 A, 418.
Shufeldt, R. W. 1893 D, 233.
Steiner, H. 1916 A, 493.
1918 A, 332, 333, 492 (Laridæ, Larinæ).
Strasser, H. 1885 A, 245 ("möven").
Taschenberg, O. 1899 A, 4124.
Wallace, A. R. 1876 A, II, 364.
Wamich, P. 1913 A, 14.
Wetmore and Miller 1926 A, 343.

LARINÆ Bonaparte.

Bonaparte, C. L. 1831 A, 34.
Adolphi, H. 1922 A, 350.
A. O. U. 1910 A, 35.
Beddard, F. E. 1896 A, 543.
Fürbringer, M. 1888 A, 1158.
Knowlton, F. H. 1909 B, 386.
Miller, R. C. 1923 A, 5-15, 10 figs. ("gulls").
Reichenow, A. 1913 A, 106.
Ridgway, R. 1887 A, 23.
Wetmore and Miller 1926 A, 343.

CHROICOCEPHALUS Eyton. Type *Larus capistratus* Temminck.

Eyton, T. C. 1836, Cat. Brit. Birds, 53.
Ridgway, R. 1919 A, 635.

Chroicocephalus philadelphia (Ord).

Ord, G. 1815, Guthrie's Geog. 2d Amer. ed., 319 (Sterna).
Hay, O. P. 1902 A, 525 (Larus).
Hay, O. P. 1927 D, 244 (Larus).
Miller, L. H. 1912 A, 80, 112 (Larus).
Ridgway, R. 1919 A, 645.
Shufeldt, R. W. 1913 B, 155 (Larus).

Recent; North America; Pleistocene (Fossil Lake); Oregon.

LARUS Linnæus. Type *Larus canus* Linnæus.

Linnæus, C. 1758 A, 136.
Hay, O. P. 1902 A, 525.
Adolphi, H. 1922 A, 351, figs. 52, 53.
Aeby, C. 1873 A, 702.
Allen, J. A. 1893 B, 99.
A. O. U. 1910 A, 36.
Arldt, T. 1907 D, 155.
Beddard, F. E. 1898 A, 542, fig. 82.
Beebe, C. W. 1906 A, 490 ("gulls").
Bignon, F. 1889 A.
Bonsdorff, E. J. 1871 A, 310.
Brandt, J. F. 1840 A, 187, 218.
Brauns, D. 1890 A, 201.
Braus, H. 1906 A, 276, fig. 239.
Bronn, H. G. 1849 A, 696.
Bruch, P. 1853 A, 96.
Chandler, A. C. 1916 C, 357, pl. xxviii.
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 479.
Diethelm, M. 1907 A, 44.
Döderlein, L. 1923 A, 142, 162.
Eaton, G. F. 1910 A, pl. ix, fig. 1.
Evans, A. H. 1899 A, 306.
Eyton, T. C. 1867 A, 225.
Fürbringer, M. 1888 A, pls. iii-v.
Garrod, A. H. 1873 C, 34, 37, fig. 2.
Gegenbaur, C. 1871 A, 177.
Giebel, C. G. 1855 B, 33.
Harting, P. 1866 A, 24.
Heilmann, G. 1913 B, 17, fig. 62.
1926 A, 205, fig. 135.
Hesse, H. 1907 A, 202, pl. viii, fig. 5.
Hommes, J. H. 1924 A, 14.
Huxley, T. H. 1876 C, 252, fig. 11.
Kessler, K. T. 1841 A, 667, 690.
Knowlton, F. H. 1909 B, 387.
Köstlin, O. 1844 A.
Lambrecht, K. 1914 A, 68, pl. viii.
Lebedinsky, N. G. 1913 B, 193.
1917 A, 330, figs. 14-16.
1921 A, 13.
Leunis and Ludwig 1883 A, 507.
Lydekker, R. 1891 A, 177.
Mackie, S. J. 1863 C, 109.
Magnan, A. 1922 A, 145, pls. v, xi; text-fig. 9.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A.
Meek, A. 1912 A, 213, figs. 1-3.
Mehnert, E. 1887 B, 213.
Miller, L. H. 1924 A.
Newton and Gadow 1896 A, 1072.
Noordenbos, W. 1905 B, 376.
Parker, W. K. 1875 A, 724.
1888 D, 469.
Pycraft, W. P. 1910 A, 44, fig. 14.
Ridgeway, R. 1887 A, 23, 25, pls. viii, ix.
1919 A, 580.
Rosenberg, F. T. 1911 A, 213.
Shufeldt, R. W. 1893 D, 233.
Steiner, H. 1921 A, 538.
Strasser, H. 1885 A, 204.
Sundevall, C. J. 1886 A, 405.
Szalay, E. L. 1902 A, 12, pl. ii.
Wallace, A. R. 1876 A, II, 364.
Wamich, P. 1913 A, 14.
Weitzel, A. 1865 A, 341.
Zittel and Schlosser 1911 A, 322.
1923 A, 398.

Larus argentatus Pontoppidian.

Pontoppidian, E. L. 1763, Danske Atlas, I, 622.
Hay, O. P. 1902 A, 525.
Adolphi, H. 1922 A, 351.
A. O. U. 1910 A, 38.
Brandt, J. F. 1840 A, 218.
Chandler, A. C. 1916 C, 357.

Evans, A. H. 1899 A, 306.
Forbes, W. A. 1881 A, 4, fig. 2.
Gegenbaur, C. 1871 A, 177, pl. vi, fig. 15.
Hay, O. P. 1927 D, 244.
Hommes, J. H. 1924 A, 15.
Knowlton, F. H. 1909 B, 388.
Miller, L. H. 1912 A, 80, 112.
Ridgway, R. 1919 A, 612.
Shufeldt, R. W. 1909 A, 313.
1913 B, 155.
1914 C, 19.

Recent; Northern Hemisphere: Pleistocene (Fossil Lake); Oregon.

Larus californicus Lawrence.

Lawrence, G. N. 1854, Ann. Lyc. Nat. Hist. N. Y., VI, 79.
Hay, O. P. 1902 A, 525.
A. O. U. 1910 A, 39.
Coues, E. 1884 A, 745.
Hay, O. P. 1927 D, 244.
Miller, L. H. 1912 A, 80, 112 (This species?).
Ridgway, R. 1919 A, 620.
Shufeldt, R. W. 1913 B, 155.

Recent; western North America: Pleistocene (Fossil Lake); Oregon.

Larus oregonus Shufeldt.

Hay, O. P. 1902 A, 525.
1927 D, 244.
Lambrecht, K. 1921 A, 55.
Miller, L. H. 1912 A, 80, 112.
Shufeldt, R. W. 1913 B, 155.

Pleistocene (Fossil Lake); Oregon.

Larus pristinus Shufeldt.

Shufeldt, R. W. 1915 D, 54, pl. xiv, fig. 112
Lambrecht, K. 1921 A, 54.

Oligocene? (John Day); Oregon.

Larus robustus Shufeldt.

Hay, O. P. 1902 A, 525.
1927 D, 244.
Lambrecht, K. 1921 A, 55.
Miller, L. H. 1912 A, 80, 112.
Shufeldt, R. W. 1913 B, 155.

Pleistocene (Fossil Lake); Oregon.

Larus vero Shufeldt.

Shufeldt, R. W. 1917 B, 40, pl. ii, fig. 21.
Hay, O. P. 1923 A, 382.
Shufeldt, R. W. 1916 E, 18 (Insufficient description).

Pleistocene (Middle?); Florida.

Larus sp. indet.?

Hay, O. P. 1923 A, 382. Pleistocene (Early); Florida.
Shufeldt, R. W. 1917 B, 38, pl. i, figs. 1, 2 (This genus?). Pleistocene (Middle?); Florida

XEMA Leach. Type *Larus sabini* (Sabini).

Leach, W. E. 1819 Ross's Voy. Baffins Bay, App., lvii.
Hay, O. P. 1902 A, 525.
A. O. U. 1910 A, 41.
Bruch, P. 1853 A, 103.
Knowlton, F. H. 1909 B, 389.
Ridgway, R. 1887 A, 23, 37, pl. ix.
1919 A, 662.
Shufeldt, R. W. 1893 D, 233.
Wallace, A. R. 1876 A, II, 364.

Xema sabini (Sabini).

Sabine, J. 1819, Trans. Linn. Soc. Lond., XII, pt. 2, 522, pl. xxix.
Hay, O. P. 1902 A, 525 (X. sabinii).
A. O. U. 1910 A, 41.
Hay, O. P. 1927 D, 244.
Knowlton, F. H. 1909 B, 389.
Miller, L. H. 1912 A, 80, 112.
Ridgway, R. 1919 A, 663.
Shufeldt, R. W. 1913 B, 155.

Recent; Arctic regions to South America: Pleistocene (Fossil Lake); Oregon.

STERNINÆ Bonaparte.

Bonaparte, C. L. 1838 B, 119.
A. O. U. 1910 A, 42.
Beddard, F. E. 1898 A, 356.
Carus, V. 1875 A, 362.
Coues, E. 1884 A, 734, 784.
Evans, A. H. 1899 A, 310.
Fürbringer, M. 1888 A, 1158.
Gadow, H. 1891 A, 205.
Knowlton, F. H. 1909 B, 390.
Reichenow, A. 1882, Vög. Zool. Gart., I, 27 (Sternidæ).
1913 A, 113.
Ridgway, R. 1919 A, 458.
Taschenberg, O. 1899 A, 4302.
Wetmore and Miller 1926 A, 343.

STERNA Linnæus. Type *Sterna hirundo* Linnæus.

Linnæus, C. 1758 A, 137.
Hay, O. P. 1902 A, 525.
Adolphi, H. 1922 A, 357.
Allen, J. A. 1893 B, 99.
A. O. U. 1910 A, 42.
Anthony, R. 1910 A, 780 ("sternes").
Arldt, T. 1907 D, 155.
Beddard, F. E. 1898 A, 547.
Beebe, C. W. 1906 A, 495 ("terns").
Brandt, J. F. 1840 A, 88, 218, 221, pl. i, fig. 8.
Chandler, A. C. 1916 C, 357.
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 489.
Döderlein, L. 1923 A, 142, 162.
Evans, A. H. 1899 A, 311.
Eyton, T. C. 1867 A, 226.
Fürbringer, M. 1888 A, pls. ii, iv, v.
Garrod, A. H. 1873 C, 37.
Harting, P. 1866 A, 24.
Hase, A. 1913 A, 139, fig. 58.

Heilmann, G. 1914 A, 63, fig. 147.
1926 A, 207, fig. 70 (Sterna).
Kessler, K. T. 1841 A, 668, 690.
Kingsley, J. S. 1925 A, 288, fig. 312.
Köstlin, O. 1844 A.
Lambrecht, K. 1914 A, 68.
Leighton, V. L. 1894 A, 63, pl. i.
Leunis and Ludwig 1883 A, 510.
Magnan, A. 1922 A, 135, text-fig. 2.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A.
Mehnert, E. 1887 B, 213.
Newton and Gadow 1896 A, 1084.
Owen, R. 1866 B, 70.
Plieninger, F. 1906 A, 404.
Ridgway, R. 1887 A, 24, 39, pls. x, xi.
1919 A, 485.
Shufeldt, R. W. 1893 D, 233.
Sieglbauer, F. 1911 A, 275.
Steiner, H. 1922 A, 310.
Sundevall, C. J. 1886 A, 403.
Wallace, A. R. 1876 A, II, 364.
Weitzel, A. 1865 A, 341.

Sterna forsteri? Nuttall.

Nuttall, T. 1834, Manual Ornith., 274.
Hay, O. P. 1902 A, 525.
1927 D, 244.
Miller, L. H. 1912 A, 80, 112.
Ridgway, R. 1919 A, 490.
Shufeldt, R. W. 1913 B, 155.

Recent; North America: Pleistocene (Fossil Lake); Oregon.

THALASSEUS Boie. Type *T. cantiaca* Gmelin.

Boie, H. 1822, Isis, VIII, 563, 880.
Ridgway, R. 1919 A, 466.

Thalasseus elegans (Gambel).

Gambel, W. 1848 (1849), Proc. Acad. Nat. Sci. Phila., IV, 129 (Sterna).
Hay, O. P. 1902 A, 525 (Sterna).
Hay, O. P. 1927 D, 244 (Sterna).
Miller, L. H. 1912 A, 80, 112 (Sterna).
Ridgway, R. 1919 A, 472.
Shufeldt, R. W. 1913 B, 155 (Sterna).

Recent: Pacific coast from San Francisco to Chili: Pleistocene (Fossil Lake); Oregon.

CHLIDONIAS Rafinesque. Type *Sterna nigra* Linnæus.

Rafinesque, C. S. 1822, Kentucky Gazette, I, No. 8, 3.

Unless otherwise indicated the authors, as cited, use for this genus the name *Hydrochelidon.*

Hay, O. P. 1902 A, 525.
Boie, F. 1922, Isis, x, 563.
Evans, A. H. 1899 A, 314.
Hesse, H. 1907 A, 202.
Leunis and Ludwig 1883 A, 512.
Newton and Gadow 1896 A, 955.
Ridgway, R. 1919 A, 526.
Steiner, H. 1918 A, 333, fig. 31.

Chlidonias nigra surinamensis (Gmelin).

Gmelin, J. F. 1789, Syst. Nat., I, 604 (Sterna surinamensis).
Hay, O. P. 1902 A, 525 (Hydrochelidon nigra).
A. O. U. 1910 A, 47 (Hydrochelidon).
Evans, A. H. 1899 A, 314 (Hydrochelidon nigra).
Hay, O. P. 1927 D, 244 (Hydrochelidon).
Miller, L. H. 1912 A, 80, 112 (Hydrochelidon).
Ridgway, R. 1919 A, 532, (Hydrochelidon).
Shufeldt, R. W. 1913 B, 155 (Hydrochelodon).

Recent, North and South America; Pleistocene (Fossil Lake); Oregon.

Superfamily ALCOIDÆ, new form.

Hay, O. P. 1902 A, 524 (Alcoidea).
Beddard, F. E. 1898 A, 359 (Alcæ).
Dabbene, R. 1910 A, 138 (Alciformes).
Evans, A. H. 1899 A, 315 (Alcæ).
Huxley, T. H. 1867 A, 458 (Cecomorphæ, in part).
Lebedinsky, N. G. 1913 A (Alciformes).
Parker, W. K. 1875 A, 699 (Cecomorphæ, in part).
Ridgway, R. 1919 A, 3, 700 (Alcæ).
Sharpe, R. B. 1891 A, 72 (Alciformes).
Wetmore and Miller 1926 A, 343 (Alcæ).

ALCIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 35.
Hay, O. P. 1902 A, 524.
Adolphi, H. 1922 A, 360.
Allen, J. A. 1871 A.
1893 B, 105.
A. O. U. 1910 A, 25.
Andrews, C. W. 1916 B, 524.
Arldt, T. 1907 D, 636.
1912 A, 708, 754.
Beddard, F. E. 1896 A, 543.
Bonaparte, C. L. 1832 A, 312 (Alcinæ).
Brandt, J. F. 1840 A, 165 (Alcadeæ).
Carus, V. 1875 A, 366.
Chandler, A. C. 1916 C.
Coues, E. 1868 A, 2, 14.
Cuvier, G. 1805 A ("alques").
Evans, A. H. 1899 A, 315.
Forbes, W. A. 1881 A, 4.
1882 A, 389.
Fürbringer, M. 1888 A.
1902 B, 651, 669.
Gadow, H. 1893 A, 206.
Garrod, A. H. 1873 C, 37.
1874 A, 117, 120.
Hoernes, R. 1886 A, 640.
Huxley, T. H. 1867 A, 458.
1867 C, 274.
Knowlton, F. H. 1909 B, 396.
Lebedinsky, N. G. 1913 A.
1921 A, 10, figs. 2-4 (Alca).

Leunis and Ludwig 1883 A, 515.
Lobley, J. L. 1908 A, 202.
Lühder, W. 1871 A, 324 (Alcæ).
Lydekker, R. 1891 A, 193.
Meckel, J. F. 1825 A (Alcæ).
Newton and Gadow 1896 A, 1059 (Alca).
Parker, W. K. 1888 D, 470.
    1890 A, 56.
Pycraft, W. P. 1900 C, 1019.
    1906 A, 401.
Pycraft, W. P. 1910 A, 54, 450.
Reichenow, A. 1913 A, 82.
Ridgway, R. 1887 A, 8.
    1919 A, 701.
Seebohm, H. 1888 A, 418.
Steiner, H. 1918 A, 333, 492.
Sushkin, P. P. 1899 B, 153.
Wallace, A. R. 1876 A, ii, 367.
Wamich, P. 1913 A, 14.

ALCINÆ Bonaparte.

Bonaparte, C. L. 1831 A, 35.
A. O. U. 1910 A, 31.
Fürbringer, M. 1888 A, 1148 (Alcinæ, Uriinæ).
Knowlton, F. H. 1909 B, 396.
Wetmore and Miller 1926 A, 343.

CERORHINCA Bonaparte. Type *Alca monocerata* Pallas.

Bonaparte, C. L. 1828, Ann. Lyc. Nat. Hist., N. Y., ii, 427.
A. O. U. 1910 A, 27.
Coues, E. 1884 A, 805, figs. 536-538 (Ceratorhina).
Ridgway, R. 1887 A, 9, 11, pl. vi.

Cerorhinca dubia Miller.

Miller, L. H. 1925 C, 115, pl. ii *a*.
    Miocene (Temblor); California.

URIA Brisson. Type *Uria uria* Brisson.

Brisson, M. J. 1760, Ornith., vi, 70.
Hay, O. P. 1902 A, 524.
Adolphi, H. 1922 A, 361.
A. O. U. 1910 A, 31.
Bignon, F. 1889 A.
Bonsdorff, E. J. 1871 A, 310.
Coues, E. 1868 A, 14, 67.
Dabbene, R. 1910 A, 201 (Catarrhactes).
Fürbringer, M. 1888 A, pls. ii, iv, vii.
Garrod, A. H. 1873 C, 36 (Catarhactes).
Giebel, C. G. 1855 B, 33.
Heilmann, G. 1926 A, 85, figs. 66, 69.
Knowlton, F. H. 1909 B, 400.
Leunis and Ludwig 1883 A, 517.
Magnan, A. 1922 A, 170, pl. v.
Newton and Gadow 1896 A, 1086.
Owen, R. 1866 B, 31, 82.
Parker, W. K. 1890 A, 58, pls. vi-viii.
Pycraft, W. P. 1900 C, 1040.
Ridgway, R. 1887 A, 10, 17, pl. ii.
    1919 A, 717.
Rosenberg, F. T. 1911 A, 209.
Selenka, E. 1869 A, pl. xvii.
Sundevall, C. J. 1886 A.
Weitzel, A. 1865 A, 339.
Zittel and Schlosser 1923 A, 398.

Uria affinis (Marsh).

Hay, O. P. 1902 A, 524.
A. O. U. 1910 A, 379.
Lambrecht, K. 1921 A, 57.
Shufeldt, R. W. 1915 D, 69, 76, pl. viii, fig. 60.
    Pleistocene; Maine.

Uria antiqua (Marsh).

Hay, O. P. 1902 A, 524.
A. O. U. 1910 A, 379.
Lambrecht, K. 1921 A, 57.
Miller and Stephenson 1912 A, 57 (Catarractes).
Shufeldt, R. W. 1915 D, 63, 76, pl. viii, fig. 56.
    Miocene (St. Mary's); North Carolina.

PINGUINUS Bonnaterre. Type *Alca impennis* Linnæus.

Bonnaterre, J. P. 1790, Tabl. Ency. Meth., 28.
Hay, O. P. 1902 A, 524 (Plautus).
Abel, O. 1912 F, 354 (Alca).
Beddard, F. E. 1898 A, 141, 360, fig. 79 (Alca).
Evans, A. H. 1899 A, 315 (Alca).
Fürbringer, M. 1888 A (Plautus, Alca).
Garrod, A. H. 1873 C, 36 (Alca).
Harting, P. 1866 A, 24 (Alca).
Hay, O. P. 1902 B, 255 (Plautus).
Heilprin, A. 1887 A, 69 (Alca).
Knowlton, F. H. 1909 B, 403 (Plautus).
Owen, R. 1866 B, 17-25 (Alca).
Ridgway, R. 1919 A, 710.
Steiner, H. 1918 A, 337, fig. 32 (Alca).

Pinguinus impennis (Linnæus).

Hay, O. P. 1902 A, 524 (Plautus).
Blasius, W. 1885 A, 398 (Alca).
Blasius, W. 1900 A, 434 (Alca).
Blatchley, W. S. 1902 A, 175, figs. 53, 54 (Plautus).
Coues, E. 1868 A, 15 (Alca).
Eimer, G. H. T. 1901 A, 164 (Alca).
Evans, A. H. 1899 A, 315 (Plautus).
Eyton, T. C. 1867 A, 215 (Alca).
Fürbringer, M. 1888 A, pls. iv, v (Plautus, Alca).
Garrod, A. H. 1873 C, 34, fig. 1 (Alca).
Grieve, S. 1883 A, 479, pl. ix (Alca).
Hay, O. P. 1902 B, 255 (Plautus).
Hoernes, R. 1886 A, 640 (Alca).
Hull, E. 1908 A, 152 ("great auk").
Huxley, T. H. 1867 A, 455 (Plautus).
Lambrecht, K. 1921 A, 56 (Alca).
Lankester, E. R. 1905 A, 23, figs. 15, 15a (Alca).
Lucas, F. A. 1903 B, 311 ("great auk").
Meunier, S. 1903 A, 772 (Alca).

Michahelles, C. 1833 A, 648 (Alca).
Mivart, St. G. 1871 B, 392, pl. liii, fig. 11 (Plautus).
Moreau, L. J. 1900 A, 109 (Alca).
Owen, R. 1868 A, 759 (Alca).
Pycraft, W. P. 1910 A, 120 ("great auk").
Ridgway, R. 1919 A, 711.
Scharff, R. W. 1907 A, 37, fig. 11 (Alca).
Serres, M. 1860 A, 303 (Alca).
Shufeldt, R. W. 1886 D, 362, fig. (Alca).
1896 A, 358 (Plautus).
Strasser, O. z. 1910 A, 184, 2 pls. (Plautus).

Formerly on coasts and islands of North Atlantic from Arctic Circle south to Ireland and Massachusetts: Found at bottom of shell heaps in Florida.

SYNTHLIBORAMPHUS Brandt. Type *Alca antiqua* Gmelin.

Brandt, J. F. 1837, Bull. Sci. Acad. Imp. St. Pétersb., II, 347.
Beddard, F. E. 1896 A, 544.
Coues, E. 1868 A, 55.
1884 A, 811.
Ridgway, R. 1919 A, 756.

Synthliboramphus antiquus (Gmelin).

Gmelin, J. F. 1789, Syst. Nat., I, II, 554. (Alca).
A. O. U. 1910 A, 29.
Coues, E. 1868 A, 56, fig. 13.
1884 A, 811, fig. 549.
Hay, O. P. 1927 D, 172.
Miller, L. H. 1914 A, 34.
1928 A, 120.
Ridgway, R. 1919 A, 757.

Recent; coasts and islands of north Pacific: Pleistocene (San Pedro); California.

MANCALLA Lucas. Type *M. californiensis* Lucas.

Lucas, F. A. 1901 G, 428.
Zittel and Schlosser 1911 A, 322.

Mancalla californiensis Lucas.

Lucas, F. A. 1901 G, 428.
Lambrecht, K. 1921 A, 56.
Lucas, F. A. 1901 E, 133, figs. 1, 2.
Merrill, G. P. 1907 A, 5.
Miller, L. H. 1911 D, 117.
1912 A, 65, 67.
Yates, L. G. 1904 A, 8.
Zittel and Lucas 1902 A, 273.

Upper Miocene; California.

NAUTILORNITHINÆ Wetmore.

Wetmore, A. 1926 B, 394.

NAUTILORNIS Wetmore. Type *N. avus* Wetmore.

Wetmore, A. 1926 B, 392.
1928 A, 151.

Nautilornis avus Wetmore.

Wetmore, A. 1926 B, 392.

Eocene (Green River); Utah.

Nautilornis proavitus Wetmore.

Wetmore, A. 1926 B, 394, pl. xxxvi, fig. 9.

Eocene (Green River); Utah.

Suborder COLUMBIFORMES Fürbringer.

Fürbringer, M. 1888 A, 1567.
Adolphi, H. 1922 A, 365 (Columbæ).
A. O. U. 1910 A, 147 (Columbæ).
Arldt, T. 1907 D, 647.
Beddard, F. E. 1897 A, 470 (Columbæ).
Blainville, H. M. D. 1816, Bull. Soc. Philomat., 110 (Giratores).
Bonaparte, C. L. 1831 A, 58 (Columbini).
Carus, V. 1868 A, 311 (Gyrantes).
Chandler, A. C. 1916 C, 359 (Columbæ).
Coues, E. 1884 A, 561 (Columbæ).
Duméril, A. M. C. 1806 A, 52 (Columbini).
Elliot, D. G. 1885 A, 236 (Columbæ).
Fürbringer, M. 1888 A (Columbæ, Peristeromorphæ).
1902 B, 614, 681.
Gadow, H. 1891 A (Columbæ).
1892 A, 247.
1893 A, 210.
1910 B, 977 (Columbæ).
Garrod, A. H. 1873 D, 639 (Columbæ).
1874 A, 117 (Columbæ).
1874 B, 252 (Columbæ).
Gaupp, E. 1905 D, 1026 (Columbæ).
Hilzheimer, M. 1913 A, 517 (Columbinæ).
Huxley, T. H. 1867 A, 456, 459, 460 (Peristeromorphæ).
1867 C, 276 (Peristeromorphæ).
Knowlton, F. H. 1909 B, 408 (Columbæ).
Leunis and Ludwig 1883 A, 434 (Columbinæ).
Lobley, J. L. 1908 A, 197 (Columbæ).
Lühder, W. 1871 A, 327 (Columbæ).
Lydekker, R. 1879 A, 12 (Peristeromorphæ).
1891 A, 123 (Columbæ).
Miller, L. H. 1925 B, 80 (Columbæ).
Newton, A. 1885 A, 46 (Columbæ).
Newton and Gadow 1896 A, 1064 (Columbæ).
Owen, R. 1866 B, 10 (Columbacei, Gemitores).
Parker, W. K. 1875 A, 700 (Peristeromorphæ).
Parker and Haswell 1897 A, 389 (Columbæ).
Reichenow, A. 1913 A, 323 (Gyrantes).
Ridgway, R. 1887 A, 210 (Columbæ).
1916 A, 275.
Sclater, P. L. 1858 A (Columbæ).
Seebohm, H. 1888 A, 419, 422, 426 (Columbæ).
Sharpe, R. B. 1891 A, 70.
Shufeldt, R. W. 1901 D, 487, 506 (Columbæ).
Steiner, H. 1916 A, 493, 496 (Columbæ).

Steiner, H. 1918 A, 271, 339, 441, 492 (Columbæ).
Strasser, H. 1905 B ("tauben").
    1905 C ("tauben").
Sundevall, C. J. 1886 A, 406 (Pygopodes).
Vialleton, L. 1916 A, 7 (Columbæ).
Wallace, A. R. 1876 A, I, 492; II, 331, 335 (Columbæ).
Wetmore, A. 1926 A, 5 ("columbiform birds").
Wetmore and Miller 1926 A, 343.
Zittel, K. A. 1890 A, 848.
Zittel and Schlosser 1911 A, 324 (Columbæ).

Superfamily COLUMBOIDÆ, new name.

Adolphi, H. 1922 A, 365 (Columbæ).
Gadow, H. 1892 A, 248 (Columbæ).
Wetmore and Miller 1926 A, 343 (Columbæ, Columbides).

COLUMBIDÆ Vigors.

Vigors, N. A. 1825 A, 480.
Adolphi, H. 1922 A, 365 (Columbinæ).
Boie, F. 1826 A, col. 977.
Bonaparte, C. L. 1831 A, 32.
Arldt, T. 1907 D, 647.
Beebe, C. W. 1915 B, 44 (Columba).
Bignon, F. 1889 A.
Blanchard, E. 1857 A, 98 ("pigeons").
Chandler, A. C. 1916 C, 360.
Coues, E. 1884 A, 562.
Cuvier, G. 1805 A ("pigeons").
Elliot, D. G. 1885 A, 242.
Engelmann, O. 1910 A, 487 (Columba).
Filatoff, D. 1906 A, 626 (Columba).
Finn, F. 1894 B, 454 ("pigeons").
Fürbringer, M. 1888 A, 1217-1420.
    1902 B, 681.
Gadow, H. 1892 A, 248.
    1893 A, 210.
    1910 B, 977.
Garrod, A. H. 1874 B, 258.
Gegenbaur, C. 1871 A, 170 ("tauben").
Gervais, P. 1856 A, 15 ("pigeons").
Giebel, C. G. 1855 B, 35 ("tauben").
Harting, P. 1866 A, 24.
Heilprin, A. 1887 A, 66.
Hesse, H. 1907 A, 214.
Huxley, T. H. 1867 A, 434, 455, 459, fig. 16.
Huxley, T. H. 1867 C, 252.
Knopfli, W. 1917 A, 51 (Columba).
Knowlton, F. H. 1909 B, 413.
L'Herminier, F. 1836 A, 110 ("pigeons").
Leunis and Ludwig 1883 A, 436.
Lobley, J. L. 1908 A, 201, 206.
Lydekker, R. 1891 A, 124.
Magnus, H. 1871 A ("tauben").
Meckel, J. F. 1825 A ("tauben").
Owen, R. 1866 B, 53, 70.
Parker, W. K. 1888 D, 473 ("pigeons").
Parker and Haswell 1897 A, 351, figs. 963-971, 973-982.
Pycraft, W. P. 1902 B, 324 ("pigeons").
Reichenow, A. 1913 A, 331 (Columbidæ); 343 (Columbinæ).
Ridgway, R. 1887 A, 210.
Selenka, E. 1869 A, 33, pls. vii, xiii (Columba).
Shufeldt, R. W. 1891 E, 194.
    1901 D, 488.
    1904 C, 315.
Steiner, H. 1918 A, 492.
Strasser, H. 1885 A, 243 ("tauben").
    1905 B ("tauben").
    1905 C ("tauben").
Wallace, A. R. 1894 A, 442.
Weitzel, A. 1865 A, 333, 357 ("tauben").
Wetmore and Miller 1926 A, 343.

COLUMBA Linnæus. Type *C. palumbus* Linnæus.

Linnæus, C. 1758 A, 162.
Beer, G. R. 1926 A, 323, fig. 96 (Columbia).
Carus and Engelmann 1861 A, 1724.
Coues, E. 1884 A, 564.
Döderlein, L. 1923 A, 142, 162.
Elliot, D. G. 1885 A, 252.
Fürbringer, M. 1888 A, pls. ii, iv.
Heilmann, G. 1926 A, 11, figs. 5, 6, 131 (Columba); 206 ("pigeons").
Hommes, J. H. 1924 A, 16.
Kingsbury, B. F. 1926 A, 103.
Knowlton, F. H. 1909 A, 419.
Lambrecht, K. 1914 A, 68, pl. viii.
Lippincott, W. A. 1920 A, 535.
Lurje, M. 1906 A, 1-61, pls. i-x ("tauben").
Magnan, A. 1922 A, 142, pl. iii; text-fig. 6.
Miller, W. D. 1924 A, 5, fig. 8.
Owen, R. 1866 B, 49, 66.
Reichenow, A. 1913 A, 343.
Ridgway, R. 1887 A, 210, 211, pl. lxii.
Selenka, E. 1869 A, pls. vii, xiii.
Sundevall, C. J. 1886 A, 406.
Taschenberg, O. 1899 A, 4000.
Weitzel, A. 1865 A, 333.

Columba fasciata Say.

Say, T. 1823, Long's Exped., II, 10.
A. O. U. 1910 A, 147.
Coues, E. 1884 A, 565.
Hay, O. P. 1927 D, 186.
Knowlton, F. H. 1909 A, 419.
Miller, L. H. 1925 B, 80.

Recent; western U. S. to Nicaraugua: Pleistocene (La Brea); California.

Columba micula (Wetmore).

Wetmore, A. 1924 A, 13, figs. 8, 9 (Chlorœnas).
Hay, O. P. 1927 D, 136 (Chlorœnas).
Wetmore, A. 1928 A, 154 (Chlorœnas).

Generic change made by Wetmore.
Pliocene? (San Pedro Valley); Arizona.

ZENAIDURA Bonaparte. Type *Columba carolinensis* Linnæus.

Bonaparte, C. L. 1854, Consp. Avium, II, 84.
A. O. U. 1910 A, 148.
Coues, E. 1884 A, 568.
Garrod, A. H. 1874 B, 259.

Knowlton, F. H. 1909 B, 426.
Ridgway, R. 1887 A, 210, 212, pl. lxiii.
1916 A, 339.
Shufeldt, R. W. 1901 D, 494.

Zenaidura macroura carolinensis (Linnæus).

Linnæus, C. 1766, Syst. Nat. ed. 12, I, 286 (Columba).
Chandler, A. C. 1916 C, 359 (Z. macroura).
Coues, E. 1884 A, 568, fig. 392 (Z. carolinensis).
Hay, O. P. 1927 D, 198 (Z. macroura); 186 (Z. m. carolinensis).
Knowlton, F. H. 1909 B, 426 (Z. macroura).
Miller, L. H. 1912 A, 84 (Z. macroura).
1925 A, 322 (Z. macroura).
1925 B, 80 (Z. macroura).
Osborn, H. F. 1925 D, 542 (Z. macroura).
Ridgway, R. 1916 A, 340.

Recent; North America: Pleistocene (McKittrick); California.

Suborder PSITTACIFORMES Fürbringer.

Fürbringer, M. 1888 A, 1552, 1567.

Unless otherwise indicated the writers, as cited, use for this suborder the name Psittaci.

Adolphi, H. 1922 A, 375.
A. O. U. 1910 A, 179.
Beddard, F. E. 1897 A, 470 ("parrots").
Coues, E. 1884 A, 494.
Gadow, H. 1892 A, 231, 249.
1910 B, 977.
Huxley, T. H. 1867 A, 465 (Psittacomorphæ).
Knowlton, F. H. 1909 B, 454.
Lambrecht, K. 1914 A, 69.
Miller, W. D. 1924 A, 2 ("parrots").
Parker, W. K. 1875 A, 700, 712, 714 (Psittacomorphæ).
Reichenow, A. 1913 A, 434.
Ridgway, R. 1887 A, 268.
Sharpe, R. B. 1891 A, 83 (Psittaciformes).
Steiner, H. 1922 A, 328.
Stejneger, L. 1885 A, 349.
Taschenberg, O. 1899 A, 4252.
Thompson, d'A. W. 1899 A, 9-46 ("parrots").
Wetmore, A. 1926 A, 5 ("psittaciform birds").
Wetmore and Miller 1926 A, 343 (Psittaciformes).
Zittel, K. A. 1890 A, 849, 856.
Zittel and Schlosser 1911 A, 324.
1923 A, 401.

PSITTACIDÆ Vigors.

Vigors, N. A. 1825 A, 452.
Adolphi, H. 1922 A, 376.
Aeby, C. 1873 A, 702, pl. xii (Psittacus).
A. O. U. 1910 A, 179.
Bignon, F. 1889 A.
Bonsdorff, E. J. 1871 A, 310, 311 (Psittacinæ).
Coues, E. 1884 A, 496.
Fürbringer, M. 1888 A, 1133.
Gaupp, E. 1905 D, 1028 ("papageien").
Knobel, E. M. 1924 A, 789 ("parrots").
Knowlton, F. H. 1909 B, 455.
Lydekker, R. 1891 A, 10.
Mivart, St. G. 1895 A, 162.
Owen, R. 1848 B, 42, 157.
1866 B, 51, fig. 30.
Reichenow, A. 1913 A, 464 (Psittacidæ); 484 (Conurinæ).
Ridgway, R. 1887 A, 268.
Selenka, E. 1869 A, 32, 34, 47, 64, pls. iv, xiv, xvi ("papageien").
Sundevall, C. J. 1886 A, 406 (Psittaci).
Thompson, d'A. W. 1899 A, 32 (Psittacinæ).
Weitzel, A. 1865 A, 332 (Psittacus).
Wetmore, A. 1926 A, 3.
Wetmore and Miller 1926 A, 344.

CONUROPSIS Salvadori. Type *Psittacus carolinensis* Linnæus.

Salvadori, T. A. 1891, Cat. Birds Brit. Mus., xx, 203.
A. O. U. 1910 A, 179.
Coues, E. 1884 A, 494 (Conurus).
Knowlton, F. H. 1909 B, 469.
Ridgway, R. 1887 A, 268, 269, pl. lxxvii (Conurus).
Shufeldt, R. W. 1886 C, 407 (Conurus).
Stejneger, L. 1885 A, 365 (Conurus).
Wetmore, A. 1926 A, 3.
1926 E, 526 ("paroquet").

Conuropsis carolinensis (Linnæus).

Linnæus, C. 1758 A, 97 (Psittacus).
Bignon, F. 1889 A, 290, 291, 295.
Ridgway, R. 1887 A, 270 (Conurus).
Shufeldt, R. W. 1886 C, 407, pls. ix, x (Conurus).
Stejneger, L. 1885 A, 366, fig. 170.

This form not found as a fossil.

Probably extinct; once ranged over much of eastern half of United States.

Conuropsis fratercula Wetmore.

Wetmore, A. 1926 A, 3, figs. 5, 6.
1928 A, 153.

Middle Miocene (Sheep Creek); Nebraska.

Suborder CUCULIFORMES Coues.

Coues, E. 1884 A, 446, 467.
Adolphi, H. 1922 A, 372.
Arldt, T. 1907 D, 646 (Coccygiformes).
Beddard, F. E. 1897 A, 470 (Cuculi).
Chandler, A. C. 1916 C, 363.
Cope, E. D. 1891 N, 58, 60 (Coccygomorphæ).

Coues, E. 1884 A, 446, 467.
Fürbringer, M. 1888 A, 1567 (Coccygiformes).
1902 B, 684, 724 (Coccygiformes).
Gadow, H. 1893 A, 212, 300.
1910 B, 977.
Gegenbaur, C. 1871 A, 192 (Coccygomorphæ).
Heilmann, G. 1926 A, 20 (Coccygomorphæ).
Huxley, T. H. 1867 A, 466 (Coccygomorphæ).
1867 C, 284 (Coccygomorphæ).
Knowlton, F. H. 1909 B, 50, 441.
Lambrecht, K. 1914 A, 69, 73.
Leunis and Ludwig 1883 A, 337 (Coccygomorphæ).
Lydekker, R. 1879 A, 27 (Coccyges).
Newton and Gadow 1896 A, 11, 147, 879 (Coccyges); 1064 (Coccygomorphæ).
Parker, W. K. 1875 A, 700, 712, 715 (Coccygomorphæ).
Pycraft, W. P. 1903 A, 258, 288 (Cuculiformes, Cuculi).
Ridgway, R. 1887 A, 271 (Coccyges).
1916 A, 1 (Coccygiformes).
Sharpe, R. B. 1891 A, 82 (Coccyges).
Shufeldt, R. W. 1901 C, 5 (Coccygomorphæ).
Steiner, H. 1918 A, 492.
Stejneger, L. 1885 A, 371 (Cuculoideæ).
Sundevall, C. J. 1886 A (Coccyges).
Wetmore and Miller 1926 A, 344.
Zittel, K. A. 1890 A, 850, 856 (Coccygiformes).

Superfamily CUCULOIDÆ, new form.

Adolphi, H. 1922 A, 373 (Cuculi).
Gadow, H. 1893 A, 223 (Coccyges).
1910 B, 977 (Cuculi).
Knowlton, F. H. 1909 B, 50, 441 (Cuculi).
Lambrecht, K. 1914 A, 69 (Cuculi).
Pycraft, W. P. 1903 A, 258, 288 (Cuculi).
1910 A, 52, 59 (Cuculi).
Stejneger, L. 1885 A, 371 (Cuculoideæ).
Wetmore and Miller 1926 A, 344 (Cuculi).

CUCULIDÆ Vigors.

Vigors, N. A. 1825 A, 453.
Adolphi, H. 1922 A, 373.
A. O. U. 1910 A, 180.
Arldt, T. 1907 D, 648.
Blanchard, E. 1859 A, 139.
Bonaparte, C. L. 1831 A, 30 (Cuculidæ, Cuculinæ).
1832 A, 297 (Cuculinæ).
1840 A, 272.
Chandler, A. C. 1916 C, 364.
Coues, E. 1884 A, 470.
Fürbringer, M. 1888 A, pls. iii, iv, vi, vii (Cuculus).
Gadow, H. 1891 A.
1893 A, 214.
Garrod, A. H. 1874 A, 116, 119.
Gaupp, E. 1905 D, 1026 (Cuculus).
Giebel, C. G. 1855 B, 37 ("kukuk").
Hesse, H. 1907 A, 221.
Huxley, T. H. 1867 A, 444, 455, 466.
1867 C, 262, 265, 285, fig. 26.
Knowlton, F. H. 1909 B, 442.
Leunis and Ludwig 1883 A, 342.
Lobley, J. L. 1908 A, 201, 206.
Magnus, H. 1871 A, 70.
Parker, W. K. 1875 D ("cuculine birds").
Pycraft, W. P. 1903 A, 258, 288.
Reichenow, A. 1914 A, 7.
Ridgway, R. 1887 A, 271.
Selenka, E. 1869 A, pl. xvi.
Shufeldt, R. W. 1901 C, 9.
Steiner, H. 1918 A, 492.
Stejneger, L. 1885 A, 373.
Taschenberg, O. 1899 A, 4018.
Weitzel, A. 1865 A, 330 (Cuculus).
Wetmore and Miller 1926 A, 344 (Cuculidæ, Cuculinæ).

NEOMORPHINÆ.

A. O. U. 1910 A, 180.
Knowlton, F. H. 1909 B, 448.
Reichenow, A. 1914 A, 10.
Shelley, G. E. 1891, Cat. Birds Brit. Mus. xix, 414.
Wetmore and Miller 1926 A, 344.

Geococcyx Wagler. Type *Saurothera californiana* Lesson.

Wagler, J. G. 1831, Isis, xxiv, 524.
A. O. U. 1910 A, 180.
Coues, E. 1884 A, 473.
Huxley, T. H. 1867 A, 444, 445.
Owen, R. 1866 B, 34, 36.
Reichenow, A. 1914 A, 12.
Ridgway, R. 1887 A, 271, 272, pl. lxxix.
Shufeldt, R. W. 1886 B, 466.
Stejneger, L. 1885 A, 381.

Geococcyx californianus (Lesson).

Lesson, R. P. 1829, Compl. Oeuvres Buffon, vi, 420 (Saurothera).
A. O. U. 1910 A, 181.
Coues, E. 1884 A, 474, fig. 325.
Hay, O. P. 1927 D, 187, 198.
Knowlton, F. H. 1909 B, 448.
Miller, L. H. 1921 C, 130 ("Geococcyx").
1925 A, 325.
1925 B, 104 (This species?).
1927 A, 156.
Osborn, H. F. 1925 D, 542 (This species?).
Shufeldt, R. W. 1886 B, 466, pls. xlii-xlv.
Stejneger, L. 1885 A, 381, fig. 184.

Recent; Sacramento Valley to Mexico, east to Kansas and Texas: Pleistocene (La Brea, McKittrick); California.

NEOMORPHUS Gloger. Type *N. geoffroyi* Temminck.

Gloger, C. W. L. 1827, in Froriep's Notiz., XVI, 278.
Carus, V. 1875 A, 235.
Miller, L. H. 1912 A, 98 (Neomorpha).
Owen, R. 1866 B, 32, 36 (Neomorpha).
Reichenow, A. 1914 A, 12.
Shelley, G. E. 1891, Cat. Birds Brit. Mus., XIX, 415.

Neomorphus sp. indet.

Hay, O. P. 1927 D, 187. Pleistocene; California.
Miller, L. H. 1912 A, 78, 98 (Neomorpha?).
Osborn, H. F. 1925 D, 542 (Neomorpha?).

Suborder STRIGIFORMES Shufeldt.

Shufeldt, R. W. 1904 B, 854.
Unless otherwise indicated the authors, as below cited, use the name Striges for this suborder.
Hay, O. P. 1902 A, 536.
Adolphi, H. 1922 A, 391.
Arldt, T. 1907 D, 145.
Barrows, W. B. 1885 A, 321 ("owls").
Beddard, F. E. 1888 B, 335.
1898 A, 244.
Bittner, F. 1912 A, 2 ("eulen").
Blainville, H. M. D. 1821 A, 193 ("oiseaux de proie nocturnes").
Bonaparte, C. L. 1832 A, 296 (Striginæ).
1833 A, 1047 ("hibous").
Brandt, J. F. 1853 A, 225 ("rapaces nocturnæ").
Carus, V. 1868 A, 75, 303 (Strigomorphæ).
Chandler, A. C. 1914 B, 141.
1916 C.
Dabbene, R. 1910 A, 489 (Strigiformes).
Diethelm, M. 1907 A, 1 (Strigiformes).
Duméril, A. M. C. 1906 A, 34 (Nocturni).
Evans, A. H. 1899 A, 397.
Fürbringer, M. 1888 A.
1902 B, 690.
Gadow, H. 1893 A, 235.
1910 B, 977.
Gemminger, M. 1852 A, 216 ("eulen").
Grote, H. 1902 A, 60 ("eulen").
Heusinger, C. F. 1822 A.
Knowlton, F. H. 1909 B, 511.
Köstlin, O. 1844 A ("eulen").
Lambrecht, K. 1914 A, 70, 71.
Lebedinsky, N. G. 1913 A (Strigiformes).
Lebedinsky, N. G. 1918 A, 37 (Strigiformes).
1918 B, 140, 146 (Strigiformes).
Lydekker, R. 1891 A, 12.
Macartney, J. 1802, Lectures on Comp. Anat., tab. ii (Nycterides).
Miller, L. H. 1925 B, 103.
Miller, W. D. 1924 A, 2 ("birds of prey").
Müller, W. 1907 A, 406.
Newton, A. 1885 A, 47.
Newton and Gadow 1896 A, 1084.
Owen, R. 1866 B (Raptores).
Pander and Alton 1838 A, 17 ("nachtraubvögel").
Pycraft, W. P. 1902 A, 292, 314.
1903 B, 1.
1910 A, 60, 439.
Rafinesque, C. S. 1815 A, 69 (Ornyctia).
Ridgway, R. 1914 A, 594.
Sclater, P. L. 1879 A, 346, 451.
Sharpe, R. B. 1891 A, 79.
Shufeldt, R. W. 1896 A, 370 ("owls").
1900 B, 719.
1909 A, 7.
Steiner, H. 1916 A, 493, 499.
1918 A, 389, 441, 494.
1922 A, 328.
Sushkin, P. P. 1899 A, 500.
1899 B, 153.
Taschenberg, O. 1899 A, 4305.
Vialleton, L. 1916 A, 7.
Wagler, J. G. 1830, Syst. Amph., 80.
Wagner, R. 1843 A, 79 ("eulen").
Wetmore and Miller 1926 A, 344.
Wilbrand, J. B. 1823 A, 511 ("raubvögel").
Wray, R. S. 1887 A, 348.

TYTONIDÆ Ridgway.

Ridgway, R. 1914 A, 600.
A. O. U. 1910 A, 168 (Aluconidæ).
Coues, E. 1884 A, 498, 500 (Aluconidæ).
Gadow, H. 1891 A, 236, 301 (Striginæ).
Knowlton, F. H. 1909 B, 514 (Striginæ).
Ridgway, R. 1887 A, 255 (Strigidæ).
Wetmore and Miller 1926 A, 344.

TYTO Billberg. Type *Strix flammea* Linnæus.

Billberg, G. J. 1828, Synop. Fauna Scand., I, pt. ii, tab. A.
Knowlton, F. H. 1909 B, 514 (Strix).
Magnan, A. 1922 A, 131, pls. i, ii, xii, xiv; text-fig. 2.
Newton and Gadow 1896 A, 1084 (Strix).
Pander and Alton 1838 A, 19 (Strix).
Ridgway, R. 1887 A, 255, pl. lxxiv (Strix).
1914 A, 600.
Shufeldt, R. W. 1900 D, 147, pls. xvii, xviii (Syrnium).
Wetmore, A. 1922 A, 458.

Tyto perlata pratincola (Bonaparte).

Bonaparte, C. L. 1838, Geol. and Comp. List, 7 (Strix).
A. O. U. 1910 A, 168 (Aluco).
Fürbringer, M. 1888 A, pl. vi (Strix pratincola).
Hay, O. P. 1923 A, 382 (Aluco pratincola).
1927 D, 187 (T. pratincola).
Knowlton, F. H. 1909 B, 514, fig. 159 (Strix pratincola).
Miller, L. H. 1909 B, 306 (Aluco).
1910 C, 11 (Aluco pratincola).
1912 A, 78, 84, 114 (Aluco).

Miller, L. H. 1916 B, 99 (Aluco).
1925 B, 103 (Aluco pratincola).
Osborn, H. F. 1925 D, 541 (T. pratincola).
Ridgway, R. 1887 A, 255 (Strix pratincola).
1914 A, 605.
Shufeldt, R. W. 1900 B, 672, 675, fig. 3 (Aluco).
1916 E, 18 (Tito).
1917 B, 38, pl. i, figs. 7, 8 (Tito).

Recent; North America; Pleistocene (Rancho La Brea); California; Florida.

STRIGIDÆ Vigors.

Vigors, N. A. 1825 A, 425.
Hay, O. P. 1902 A, 536.
Adolphi, H. 1922 A, 392 (Buboninæ).
Allen, J. A. 1871 A.
Arldt, T. 1907 D, 683.
1912 A, 708, 752.
Barrows, W. B. 1885 A, 325 (Striginæ).
Beddard, F. E. 1888 B, 335.
Beebe, C. W. 1906 A, 492 ("owls").
Beyer, H. 1908 A, 247, fig. 18 (Strix).
Blanchard, E. 1859 A, 60 (Strix).
Bonaparte, C. L. 1831 A, 30 (Striginæ).
1838 B, 116 (Buboninæ).
1840 A, 261 (Buboninæ).
Brandt, J. F. 1853 A, 226 (Strigidæ); 230 (Buboninæ).
Dabbene, R. 1910 A, 489.
Engelmann, O. 1910 A, 487 (Strix).
Evans, A. H. 1899 A, 398 (Strigidæ); 404 (Buboninæ).
Fürbringer, M. 1888 A (Strigidæ); 1306 (Striginæ, Asioninæ).
1902 B, 691 (Bubonidæ); 724 (Strigidæ).
Gadow, H. 1893 A, 235.
Garrod, A. H. 1873 D, 635.
1874 A, 117.
Gegenbaur, C. 1863 A, 471 (Strix).
1871 A, 189 ("strigiden").
Gervais, P. 1856 A, 8 ("strigidés").
Giebel, C. G. 1855 B, 38 ("eulen").
Hesse, H. 1907 A, 219.
Heusinger, C. F. 1822 A, 177 ("eulen").
Huxley, T. H. 1867 A, 462.
1867 C, 280.
Kessler, K. T. 1841 A, 489 ("eulen").
Kleinschmidt, O. 1902 A, 640, figs. 1, 2 ("eulen").
Knowlton, F. H. 1909 B, 516, 521 (Buboninæ).
Lebedinsky, N. G. 1913 A (Strigidæ, Buboninæ).
Leunis and Ludwig 1883 A, 417 (Strigidæ).
L'Herminier, F. 1836 A ("chouettes").
Lobley, J. L. 1908 A, 201, 207.
Lühder, W. 1871 A, 329.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A ("eulen").
Newton and Gadow 1896 A, 1076 ("owls").
Owen, R. 1868 A, 909.
Parker, W. K. 1875 D, 138 (Strigidæ).
Pycraft, W. P. 1902 A, 292 (Bubonidæ); 293 (Strigidæ).
1902 B, 324 ("owls").
1903 A, 38 (Asioninæ); 39 (Asionidæ).
1903 B, 39 (Strigidæ); 2, 39 (Buboninæ).
Reichenow, A. 1913 A, 415.
Ridgway, R. 1887 A, 218, 255 (Bubonidæ).
1914 A, 617.
Sclater, P. L. 1879 A, 346, 351.
Shufeldt, R. W. 1881 D, 117.
1900 D, 119 (Strigidæ).
1904 B, 854 (Strigidæ, Bubonidæ).
1909 A, 7.
Wallace, A. R. 1894 A, I, 441; II, 350.

Otus Pennant. Type *O. bakkamæna* Pennant.

Pennant, T. 1769, Indian Zoology, 3.
A. O. U. 1910 A, 172.
Beyer, H. 1907 B, 301, fig. 15.
Blanchard, E. 1859 A, 62.
Cuvier, G. 1805 A.
Eyton, T. C. 1867 A, 30.
Huxley, T. H. 1867 C, 260, fig. 23.
Leunis and Ludwig 1883 A, 419.
Ridgway, R. 1887 A, 256, 260 (Megascops).
1914 A, 681.
Selenka, E. 1869 A, 54.
Weitzel, A. 1865 A, 326 (Strix).

Otus asio bendirei (Brewster).

Brewster, W. 1882, Bull. Nuttall Orn. Club, VII, 31 (Scops).
A. O. U. 1910 A, 173.
Hay, O. P. 1927 D, 187 (O. asio).
Knowlton, F. H. 1909 B, 527, fig. 164 (Megascops).
Miller, L. H. 1911 C, 395, 399 (O. asio).
1912 A, 71, 78, 84, 114 (O. asio).
1916 B, 100.
1925 B, 103 (O. asio).
Osborn, H. F. 1925 D, 541 (O. asio).
Parker, W. K. 1875 A, 713 (Asio otus).
Ridgway, R. 1887 A, 262 (Megascops).
1914 A, 701.

Recent; southwestern Oregon and California: Pleistocene (La Brea and caves); California.

Bubo Duméril. Type *Strix bubo* Linnæus.

Duméril, A. M. C. 1806, Zool. Analyt., 34.
Hay, O. P. 1902 A, 536.
Adolphi, H. 1922 A, 398, fig. 62.
Aeby, C. 1873 A, 702 (Strix).
Allen, J. A. 1893 B, 99.
Barrows, W. B. 1885 A, 327.
Beddard, F. E. 1888 B, 336, fig. 2.
1898 A, 536, figs. 126, 128.
Beebe, C. W. 1915 B, 46.
Bignon, F. 1889 A.
Blanchard, E. 1859 A, 63.
Brandt, J. F. 1853 A, 231.
Chandler, A. C. 1916 C, 371, pl. xxxii, fig. 84a.
Dabbene, R. 1910 A, 251.
Diethelm, M. 1907 A, 6, figs. 2a, 2c.
Döderlein, L. 1902 A, 438.

Eyton, T. C. 1867 A, 31, pl. iv, fig. 9.
Fürbringer, M. 1888 A, pls. iii, vi, vii.
Gaillard, C. 1908 A, 34.
Gegenbaur, C. 1871 A, 190.
Giebel, C. G. 1855 B, 38 (Strix).
Heusinger, C. F. 1822 A, 179 ("schuhu").
Knowlton, F. H. 1909 B, 521.
Leunis and Ludwig 1883 A, 419.
Mackie, S. J. 1863 C, 106.
Magnan, A. 1922 A, 177, pls. iv, xi.
Miller, L. H. 1916 B, 100.
1921 B, 263.
Newton and Gadow 1896 A, 1062.
Pander and Alton 1838 A, 20, 23 (Strix).
Pycraft, W. P. 1903 B, 4, 40.
Reichenow, A. 1913 A, 418.
Ridgway, R. 1887 A, 256, 262, pl. lxxvi.
1914 A, 736.
Sclater, P. L. 1879 A, 349.
Shufeldt, R. W. 1900 B, 667.
1900 D, 124, 140.
1915 D, 45.
Sundevall, C. J. 1886 A, 392 (Strix); 410 (Bubo).
Wallace, A. R. 1876 A, II, 350.
Weitzel, A. 1865 A, 327.
Zittel and Schlosser 1911 A, 325.
1923 A, 401.

Bubo leptosteus Marsh.

Hay, O. P. 1902 A, 536.
Lambrecht, K. 1921 A, 96.
Shufeldt, R. W. 1915 D, 33, 77, pl. ii, fig. 18.

Middle Eocene (Bridger); Wyoming.

Bubo sinclairi Miller.

Miller, L. H. 1911 C, 393, 399, figs. 4, 5.
Hay, O. P. 1927 D, 216.
Miller, L. H. 1912 A, 71, 73, 114.

Pleistocene (Caves); California.

Bubo virginianus pacificus Cassin.

Cassin, J. 1854, Illustr. Birds Calif., etc., 178.
Hay, O. P. 1902 A, 536 (B. virginianus).
1927 D, 187, 198, 216, 244.
Husband, R. A. 1924 A, 220, figs. 54-56 (B. virginianus).
Knowlton, F. H. 1909 B, 521, fig. 162 (B. virginianus).
Lippincott, W. A. 1920 A, 535 (B. virginianus).
Miller, L. H. 1909 B, 306 (B. virginianus).
1910 C, 11 (B. virginianus).
1911 C, 393, 399 (B. virginianus).
1912 A, 73, 78, 81, 84, 114 (B. virginianus).
1916 B, 100, fig. 1 (B. v. pacificus).
1925 A, 324 (B. virginianus).
1925 B, 67 (B. pacificus, B. saturatus).
1927 A, 156 (B. virginianus).
Osborn, H. F. 1925 D, 541 (V. virginianus).
Ridgway, R. 1887 A, 263 (B. virginianus, B. v. saturatus).
1914 A, 745 (B. v. pacificus).
Shufeldt, R. W. 1881 D, 114 (B. virginianus).
1900 B, pls. x, xi; pl. xii, fig. 10; pl. xv, fig. 20; text-fig. 5 (B. virginianus).
1909 A, 75 (B. virginianus).
1913 B, 157 (B. virginianus).
Weitzel, A. 1865 A, 327, 359 (B. virginianus).

Recent; Bubo virginianus in greater part of North and South America. B. virginianus pacificus in California, Oregon: Pleistocene (Fossil Lake); Oregon; (La Brea and caves); California.

GLAUCIDIUM Boie. Type *Strix passerina* Linnæus.

Boie. F. 1826, Isis, XIX, 970.
Adolphi, H. 1922 A, 404.
A. O. U. 1910 A, 177.
Barrows, W. B. 1885 A, 328, fig. 152.
Blanchard, E. 1859 A, 64.
Fürbringer, M. 1888 A, pls. iii, iv, vi, vii.
Gadow, H. 1891 A.
Knowlton, F. H. 1909 B, 538.
Lambrecht, K. 1914 A, 70.
Pycraft, W. P. 1903 B, 36, 41.
Reichenow, A. 1913 A, 429.
Ridgway, R. 1873 A, 91.
1887 A, 257, 266, pl. lxxv.
1914 A, 779.
Selenka, E. 1869 A, pl. xvi.
Shufeldt, R. W. 1900 D, 132, 136, pl. xv.
1916 A, 667.

Glaucidium gnoma Wagler.

Wagler, J. G. 1832, Isis, XXV, 275.
Hay, O. P. 1927 D, 187, 216.
Knowlton, F. H. 1909 A, 538.
Miller, L. H. 1911 C, 395, 400.
1912 A, 73, 84, 114.
1925 B, 104.
Ridgway, R. 1873 A, 93.
1887 A, 266.
1914 A, 785.

Recent; British Columbia to Guatemala: Pleistocene (Samwel cave); California.

This is probably *G. g. californicum* Sclater. (Sclater, 1857, Proc. Zool. Soc. Lond., 4, G. californicum).

MICROPALLAS Coues. Type *Athene whitneyi* Cooper.

Coues, E. 1889, Auk. VI, 71.
A. O. U. 1910 A. 178.
Knowlton, F. H. 1909 B, 539.
Ridgway, R. 1887 A, 257, 266, pl. lxxv (Micrathene, preoccupied).
1914 A, 806.
Shufeldt, R. W. 1900 B, 718.
1916 A, 667.

Micropallas whitneyi (Cooper).

Cooper, J. G. 1861, Proc. Calif. Acad. Sci. I, 118 (Athene).
A. O. U. 1910 A, 178.
Hay, O. P. 1927 D, 216.
Knowlton, F. H. 1909 A, 539.
Miller, L. H. 1911 C, 395, 400.

Miller, L. H. 1912 A, 73, 97, 114.
Ridgway, R. 1887 A, 267 (Micrathene).
1914 A, 807.

Shufeldt, R. W. 1900 B, 717, pl. xiv, figs. 17, 18.
Recent; southeastern United States and northern New Mexico: Pleistocene (Samwel Cave); California.

Speotyto Gloger. Type *Strix cunicularia* Molina.

Gloger, C. W. L. 1842, Hand- und Hilfsbuch, 226.
Allen, J. A. 1893 B, 110.
A. O. U. 1910 A, 177.
Barrows, W. B. 1885 A, 324, fig. 150.
Beddard, F. E. 1888 B, 336.
Fürbringer, M. 1888 A.
Knowlton, F. H. 1909 B, 536.
Pycraft, W. P. 1903 B, 2, 40.
Ridgway, R. 1887 A, 257, 265, pl. lxxvii.
1914 A, 812.
Shufeldt, R. W. 1880 A, 87.
1900 B, 683.
1909 A, 380.

Speotyto cunicularia hypugæa (Bonaparte).

Bonaparte, C. L. 1825, Amer. Ornith., 72 (Strix).
A. O. U. 1910 A, 177 (S. c. hypogæa).
Coolidge, D. 1904 A, 330.
Hay, O. P. 1927 D, 187, 198 (S. cunicularia).
Knowlton, F. H. 1909 B, 536 (S. cunicularia).
Miller, L. H. 1909 B, 306 (S. cunicularia).
1912 A, 78, 114.
1916 B, 104 (S. cunicularia).
1925 A, 324 (S. cunicularia).
1925 B, 104 (S. cunicularia).
Osborn, H. F. 1925 D, 541 (S. cunicularia).
Pycraft, W. P. 1903 B, 15, pl. i, figs. 4, 14, 16; pl. ii, figs. 3, 6, 8 (S. cunicularia).
Ridgway, R. 1887 A, 265 (S. c. hypogæa).
1914 A, 814.
Shufeldt, R. W. 1881 D, 87, pls. i, ii.
1900 B, 681 (S. cunicularia).
Recent; Pacific Coast to Minnesota and Louisiana: Pleistocene (La Brea); California.

Speotyto sp. indet.

Miller, L. H. 1910 C, 11. Pleistocene (La Brea); California.

Asio Brisson. Type *Asio asio* Brisson.

Brisson, M. J. 1760, Ornith., I, 477.
A. O. U. 1910 A, 169.
Beddard, F. E. 1888 B, 336.
1898 A, 252.
Eyton, T. C. 1867 A, pl. iv, fig. 7; pl. vi, fig. 12.
Foote, J. S. 1916 A, 72.
Gaillard, C. 1908 A, 35.
Lambrecht, K. 1914 A, 70.
Magnan, A. 1922 A, 166.
Miller, L. H. 1916 B, 102.
Newton and Gadow 1896 A, 1060.
Pycraft, W. P. 1903 A, 7, 39.
Ridgway, R. 1887 A, 256, 257, pl. lxxiv.
1914 A, 654.
Shufeldt, R. W. 1900 B, 667.
1900 D, 125, 142, pls. xv, xvi.
1909 A, 28, 80.
Steiner, H. 1918 A, 392.

Asio flammeus (Pontoppidan).

Pontoppidan, E. 1763, Danske Atlas, I, 617, pl. xxv (Strix).
Barrows, W. B. 1885 A, 346, fig. 157 (Aluco).
Bignon, F. 1889 A, 284 (Strix).
Fürbringer, M. 1888 A, pls. vi, vii (Strix).
Hay, O. P. 1927 D, 187.
Heusinger, C. F. 1822 A, 179 (Strix).
Knowlton, F. H. 1909 B, 516 (Strix).
Miller, L. H. 1909 B, 306 (A. accipitrinus).
1910 C, 11 (A. accipitrinus).
1912 A, 78, 114.
1916 B, 102, 103.
1925 B, 104.
Osborn, H. F. 1925 D, 541.
Pander and Alton 1838 A, 22, 23.
Parker, W. K. 1875 A, 713 (Aluco).
1875 D, 38, pl. xxiv, figs. 5-9 (Aluco).
Ridgway, R. 1887 A, 258 (A. accipitrinus).
1914 A, 661.
Selenka, E. 1869 A, pl. ii, fig. 11; pl. xvi, fig. 14 (Strix).
Shufeldt, R. W. 1900 B, 674, fig. 1.
1900 D, 130 (Strix).
Steiner, H. 1918 A, 392, fig. 38 (Asio otus).
Recent; nearly cosmopolitan: Pleistocene (La Brea); California.

Asio wilsonianus (Lesson).

Lesson, R. P. 1831, Traité d'Ornith., 110 (Otus).
Foote, J. S. 1916 A, 72, pl. vii.
Hay, O. P. 1927 D, 216.
Knowlton, F. H. 1909 B, 518.
Miller, L. H. 1909 B, 306.
1911 C, 395, 399.
1912 A, 73, 84, 114.
1916 B, 102, 103.
1925 B, 104.
Osborn, H. F. 1925 D, 541.
Ridgway, R. 1887 A, 257.
1914 A, 654.
Shufeldt, R. W. 1900 B, pl. xv, figs. 22, 23; pl. xvii, text-fig. 6.
1909 A, 28, 80.
Recent; temperate portion of North America: Pleistocene (La Brea, Samwel cave); California.

Asio sp. indet.

Miller, L. H. 1910 C, 11. Pleistocene (La Brea); California.

MINERVA Shufeldt. Type *M. antiqua* Shufeldt.

Shufeldt, R. W. 1915 D, 43.
Wetmore, A. 1922 A, 457.
Zittel and Schlosser 1923 A, 401.

Minerva antiqua Shufeldt.

Shufeldt, R. W. 1915 D, 42, pl. xv, figs. 131-136, 148-152, 154.
Lambrecht, K. 1921 A, 96.
Wetmore, A. 1922 A, 457.
Middle Eocene (Bridger); Wyoming.

Minerva saurodosis Wetmore.

Wetmore, A. 1922 A, 455, 2 figs.
Leidy, J. 1873 B, 182, pl. xv, fig. 14 (Saniva major, in part; humerus).
Wetmore, A. 1926 E, 525.
1928 A, 151.
Middle Eocene (Bridger); Wyoming.

Suborder PICIFORMES Garrod.

Garrod, A. H. 1874 A, 117.
Hay, O. P. 1902 A, 536 (Picariæ).
Adolphi, H. 1922 A, 411 (Pici).
A. O. U. 1910 A, 185 (Pici).
Arldt, T. 1907 D, 673 (Picariæ).
Beddard, F. E. 1893 A, 507 ("woodpeckers").
Blanchard, E. 1859 A, 126 ("pics").
Carus, V. 1875 A, 242 (Pici).
Chandler, A. C. 1914 B, 141 (Picariæ).
Cope, E. D. 1891 N, 58, 60 (Picoidæ).
Coues, E. 1884 A, 476.
Dabbene, R. 1910 A, 485.
Evans, A. H. 1899 A, 445 (Pici).
Fürbringer, M. 1902 B, 716, 724 (Pici).
Gadow, H. 1892 A, 234, 253 (Pici).
1893 A, 259 (Pici).
1910 B, 978 (Pici).
Garrod, A. H. 1872 A, 357 ("woodpeckers").
Huxley, T. H. 1867 C, 285 (Celeomorphæ).
Illiger, C. 1811 A, 205 (Sagittilingues).
Kessler, K. T. 1841 A, 626 ("klettervögel").
Knowlton, F. H. 1909 B, 576 (Pici).
Lambrecht, K. 1914 A, 70, 73 (Pici).
Leunis and Ludwig 1883 A, 352 (Picariæ).
Lobley, J. L. 1908 A, 197 (Picariæ).
Lydekker, R. 1879 A, 13, 27 (Picariæ, Celeomorphæ).
Miller, W. D. 1924 A, 2 ("woodpeckers").
Newton, A. 1885 A, 47 (Pici).
Newton and Gadow 1896 A, 1078 (Picariæ).
Parker, W. K. 1875 A, 700, 716 (Celeomorphæ).
Pycraft, W. P. 1910 A, 59 (Pici).
Ridgway, R. 1887 A, 280 (Pici).
1914 A, 1 (Picariæ).
Sharpe, R. B. 1891 A, 84.
1891 D, 122 (Pici).
1896 A, 371 ("woodpeckers").
Shufeldt, R. W. 1900 C, 578 (Pici).
Steiner, H. 1916 A, 493 (Pici).
1918 A, 413, 441, 494 (Pici).
Stejneger, L. 1885 A, 368 (Picariæ).
Vialleton, L. 1916 A, 7.
Wagner, R. 1843 A, 79 (Picariæ).
Wallace, A. R. 1876 A, I, 500; II, 302, 322 (Picariæ).
Wetmore and Miller 1926 A, 344.
Zittel and Lucas 1902 A, 277 (Picariæ).
Zittel and Schlosser 1911 A, 324 (Picariæ).
1923 A, 401 (Picariæ).

Superfamily PICOIDÆ, new name.

Sharpe, R. B. 1891 A, 84 (Pici).
Wetmore and Miller 1926 A, 345 (Pici).

PICIDÆ Vigors.

Vigors, N. A. 1825 A, 452.
Adolphi, H. 1922 A, 411.
Allen, J. A. 1871 A.
Blanchard, E. 1859 A, 127.
Bonaparte, C. L. 1831 A, 30.
1838 B, 117 (Picinæ).
1840 A, 271.
Carus, V. 1875 A, 245.
Dabbene, R. 1910 A, 485.
Evans, A. H. 1899 A, 457.
Fürbringer, M. 1888 A.
1902 B, 718.
Gadow, H. 1892 A, 253.
1893 A, 268.
1910 B, 978.
Garrod, A. H. 1874 A, 117.
Gaupp, E. 1905 D, 1026 (Picus).
Gemminger, M. 1852 A, 216 ("spechte").
Giebel, C. G. 1855 B, 36 ("spechte").
Hesse, H. 1907 A, 222.
Huxley, T. H. 1867 A, 450, 467, fig. 30.
1867 C, 267.
Knowlton, F. H. 1909 B, 587.
Köstlin, O. 1844 A ("klettervögel").
Leunis and Ludwig 1883 A, 354.
Lobley, J. L. 1908 A, 201, 206.
Lühder, W. 1871 A, 327.
Magnus, H. 1871 A, 46, 88.
Meckel, J. F. 1825 A ("klettervögel").
Owen, R. 1866 B, 58, fig. 33.
Parker, W. K. 1875 C.
Reichenow, A. 1914 A, 61.
Ridgway, R. 1887 A, 280.
1914 A, 4.
Selenka, E. 1869 A, 57.
Shufeldt, R. W. 1891 D, 128.
1900 C, 579.
Steiner, H. 1918 A, 494.
Stejneger, L. 1885 A, 426 (Picinæ).
Taschenberg, O. 1899 A, 4233.
Tristram, H. B. 1888 A, 208.
Wallace, A. R. 1894 A, 441.
Weitzel, A. 1865 A, 331 (Picus).
Wetmore and Miller 1926 A, 345 (Picidæ, Picinæ).

UINTORNIS Marsh. Type *U. lucaris* Marsh.

Hay, O. P. 1902 A, 536.
Wallace, A. R. 1876 A, I, 163.

The systematic position of this bird is in doubt.

Uintornis lucaris Marsh.

Hay, O. P. 1902 A, 536.
Lambrecht, K. 1921 A, 89.
Shufeldt, R. W. 1915 D, 50, 77, pl. vi, fig. 42.

Middle Eocene (Bridger); Wyoming.

COLAPTES Vigors. Type *Cuculus auratus* Linnæus.

Vigors, N. A. 1825 A, 457.
Allen, J. A. 1893 B, 117.
Leunis and Ludwig 1883 A, 357.
Newton and Gadow 1896 A, 1064.
Ridgway, R. 1887 A, 280, 295, pl. lxxxvi.
 1914 A, 12.
Shufeldt, R. W. 1891 D, 126.
 1900 C, 581.
Wallace, A. R. 1876 A, II, 304.
Weitzel, A. 1865 A, 332.

Colaptes cafer collaris Vigors.

Vigors, N. A. 1829, Zool. Jour., IV, 354.
Hay, O. P. 1927 D, 187, 216, 223.
Knowlton, F. H. 1909 B, 590.
Miller, L. H. 1911 C, 398, 400.
 1912 A, 71, 73, 75, 78, 84.
 1925 B, 105 (C. cafer).
 1927 A, 156 (C. cafer).
Osborn, H. F. 1925 D, 542 (C. cafer).
Ridgway, R. 1914 A, 29.

Recent; Pacific Coast of United States: Pleistocene (La Brea and Caves); California.

Suborder PASSERIFORMES Garrod.

Garrod, A. H. 1874 A, 117, 122.
Hay, O. P. 1902 A, 536 (Passeres).
Abel, O. 1919 A, 708.
Adolphi, H. 1922 A, 418.
Beddard, F. E. 1898 A, 172 (Passeres).
Beer, G. R. 1926 A, 322, figs. 94, 95, 97, 123 (Passer).
Bittner, F. 1912 A, 2 (Passeres).
Bonaparte, C. L. 1831 A, 30 (Passeres).
 1832 A, 296 (Passeres).
 1833 A, 1042 ("passereaux").
Bonsdorff, E. J. 1871 A, 310 (Passeres).
Carus, V. 1875 A, 258 (Passerinæ).
Chandler, A. C. 1914 B, 141 (Passeres).
 1916 C, 380, 391.
Clark, H. L. 1901 A, 378 ("passeriforms").
Cope, E. D. 1891 N, 60, 64 (Passeroidei).
Cuvier, G. 1805 A.
Dabbene, R. 1910 A, 484.
Eimer, G. H. T. 1901 A, 212 (Passeres).
Evans, A. H. 1899 A, 466.
Finn, F. 1894 B, 454 (Passeres).
Forbes, W. A. 1881 A, 5, fig. 6 ("passerine birds").
Fürbringer, M. 1902 B, 707, 724 (Passeres).
Gadow, H. 1893 A, 270.
 1910 B, 978 (Passeres).
Gegenbaur, C. 1871 A, 193 (Coracomorphæ).
Gervais, P. 1856 A, 8 ("passereaux").
Giebel, C. G. 1855 B, 32 ("singvögel").
Hilzheimer, M. 1913 A, 517 (Coracornithes).
Hoernes, R. 1886 A, 645 (Passerinæ).
Huxley, T. H. 1867 A, 469 (Coracomorphæ).
 1867 C, 267, 288 (Coracomorphæ).
Kessler, K. T. 1841 A, 493 (Passeres).
Knopfli, W. 1917 A, 51 (Passeres).
Knowlton, F. H. 1909 B, 603.
Köstlin, O. 1844 A ("passerineen").
Lambrecht, K. 1914 A, 72, 73.
Lebedinsky, N. G. 1913 A.
 1918 A, 41.
 1918 B, 144, 146
Leunis and Ludwig 1883 A, 364 (Passeres).
L'Herminier, F. 1836 A, 111 ("passereaux").
Lobley, J. L. 1908 A, 197 (Passeres).
Lucas, F. A. 1894 A, 208 (Passeres).
 1902 H, 95 (Passeres).
Lydekker, R. 1879 A, 26 (Coracomorphæ).
Marinelli, W. 1928 A, 155.
Meckel, J. F. 1825 A ("singvögel").
Miller, L. H. 1925 B, 105 (Passeres).
Miller, W. D. 1924 A, 1, 2 (Passeres).
Mitchell, P. C. 1894 A, 213 (Passeres).
Newton, A. 1885 A.
Newton and Gadow 1896 A, 1077 (Passeres).
Nitzsch, C. L. 1862 A, 389 ("passerinen").
Parker, W. K. 1875 A, 700, 712, 720 (Coracomorphæ).
 1875 D, 104 (Coracomorpha).
 1888 B, 323 (Passerinæ).
 1888 D, 468 ("passerines").
Pycraft, W. P. 1901 A, 351.
 1910 A, 56, 60 (Passeres).
Reynolds, S. H. 1897 A, 328 (Passeres).
Ridgway, R. 1887 A, 321 (Passeres).
 1901 A, 12.
Sclater, P. S. 1858 A (Passeres).
Sharpe, R. B. 1891 A, 85.
Shufeldt, R. W. 1896 A, 362, 371 (Passeres).
 1904 B, 855.
 1904 C, 316 (Passeres).
Steiner, H. 1916 A, 493, 496 (Passeres).
 1918 A, 420, 494 (Passeres).
 1922 A, 326 (Passeres).
Sundevall, C. J. 1886 A, 402 (Passeres).
Vialleton, L. 1916 A, 7.
Wagner, R. 1843 A, 79 (Passerinæ).
Wallace, A. R. 1864 A, 37 (Passeres).
 1876 A, I, 500, II, 255, 299 (Passeres).
Wetmore and Miller 1926 A, 345.
Wray, R. S. 1887 A, 348 (Passeres).
Zittel and Lucas 1902 A, 278 (Passeres).
Zittel and Schlosser 1911 A, 325 (Passeres).
 1923 A, 401 (Passeres).

Superfamily FORMICAROIDÆ, new form.

Reichenow, A. 1914 A, 229 (Formicariidæ).
Ridgway, R. 1907 A, 331 (Tracheophonæ).
Stejneger, L. 1885 A, 460, 476 (Formicaroideæ).

PTEROPTOCHIDÆ Cabanis and Heine.

Cabanis and Heine 1860, Mus. Heineanum, II Theil, 20.
Gadow, H. 1893 A, 277.
1910 B, 978.
Knowlton, F. H. 1909 B, 638.
Reichenow, A. 1914 A, 234.
Ridgway, R. 1911 A, 7.
Shufeldt, R. W. 1913 D, 648.

HEBE Shufeldt. Type *H. schucherti* Shufeldt.

Shufeldt, R. W. 1913 D, 644.
The family position of this genus is doubtful.

Hebe schucherti Shufeldt.

Shufeldt, R. W. 1913 D, 644, fig. 10.
Lambrecht, K. 1921 A, 93.
Eocene (Green River); Wyoming.

Superfamily FRINGILLOIDÆ, new name.

Gadow, H. 1893 A, 276 (Oscines).
1910 B, 978 (Oscines).
Lambrecht, K. 1921 A, 89 (Passeridæ).
Leunis and Ludwig 1883 A, 369 (Oscines).
Lühder, W. 1871 A, 324 (Oscines).
Magnus, H. 1871 A (Oscines).
Newton, A. 1885 A, 47 (Oscines).
Ridgway, R. 1901 A, 17 (Oscines).
Sharpe, R. B. 1891 A, 85 (Oscines).
Steiner, H. 1918 A, 421, 494 (Oscines).
Stejneger, L. 1885 A, 481 (Passeroideæ).
Sundevall, C. J. 1886 A, 450 (Oscines).
Wetmore and Miller 1926 A, 345 (Oscines).

ALAUDIDÆ Boie.

Boie, F. 1826 A, col. 974.
Bonaparte, C. L. 1831 A, 49 (Alaudinæ).
Carus, V. 1875 A, 279.
Coues, E. 1884 A, 280.
Harting, P. 1866 A, 24.
Hesse, H. 1907 A, 236.
Knowlton, F. H. 1909 B, 644.
Lambrecht, K. 1914 A, 72.
Leunis and Ludwig 1883 A, 380.
Lobley, J. L. 1908 A, 201, 206.
Parker, W. K. 1875 A, 716 (Alauda).
Ridgway, R. 1887 A, 321, 346.
1901 A, 23.
1907 A, 289.
Sharpe, R. B. 1891 A, 86.
Sundevall, C. J. 1886 A, 402 (Alaudæ).
Wallace, A. R. 1876 A, II, 289.
1894 A, 440.
Wetmore, A. 1925 A, 189, 191.
Wetmore and Miller 1926 A, 345.

OTOCORIS Bonaparte. Type *Alauda alpestris* Linnæus.

Bonaparte, C. L. 1838, Nuovi Ann. Sci. Nat. (Bologna), II, 407.
Allen, J. A. 1893 B, 110.
A. O. U. 1910 A, 219.
Blanchard, E. 1859 A, 85 (Alauda).
Coues, E. 1884 A, 281 (Eremophila).
Fürbringer, M. 1888 A, 59 (Eremophila).
Kingsley, J. S. 1925 A, 56, fig. 63 (Eremophila).
Knowlton, F. H. 1909 B, 645.
Leunis and Ludwig 1883 A, 381 (Otocorys).
Newton and Gadow 1896 A, 1059 (Alauda).
Ridgway, R. 1887 A, 346, 347, pl. xcvi.
1907 A, 295.
Shufeldt, R. W. 1881 E, 119 (Eremophila).
Wallace, A. R. 1876 A, II, 444 (Eremophilus).

Otocoris alpestris (Linnæus).

Linnæus, C. 1758 A, 166 (Alauda).
A. O. U. 1910 A, 219.
Hay, O. P. 1927 D, 187.
Miller, L. H. 1912 A, 78, 114.
1921 C, 130.
Ridgway, R. 1887 A, 348.
1907 A, 303.
Shufeldt, R. W. 1881 E, 119, pl. iv (Eremophila).
Recent; North America and northern parts of South America, Europe, Asia, and Africa: Pleistocene (La Brea); California. Identity of remains found at La Brea, California, doubtful.

Otocoris sp. indet.

Miller, L. H. 1925 B, 105 (This genus?). Pleistocene (La Brea); California.

HIRUNDINIDÆ Vigors.

Vigors, N. A. 1825 A, 468.
A. O. U. 1910 A, 290.
Coues, E. 1884 A, 319.
Huxley, T. H. 1867 A, 456 ("swallows").
Knowlton, F. H. 1909 B.
Lambrecht, K. 1914 A, 72.
Pycraft, W. P. 1907 A, 352.
Ridgway, R. 1887 A, 322, 457.
Selenka, E. 1869 A, 75, 80, pls. ii, iii, xvi (Hirundo).
Stejneger, L. 1885 A, 507.
Sundevall, C. J. 1886 A, 404.
Wetmore and Miller 1926 A, 345

PETROCHELIDON Cabanis. Type *Hirundo melanogaster* Swainson.

Cabanis, J. L. 1851, Mus. Hein., I, 47.
A. O. U. 1910 A, 291.
Coues, E. 1884 A, 323.
Reichenow, A. 1914 A, 248.
Ridgway, R. 1887 A, 457, 459, pl. cxiv.

Petrochelidon lunifrons (Say).

Say, T. 1823, in Long's Exped., II, 47 (Hirundo).
A. O. U. 1910 A, 291.
Coues, E. 1884 A, 323, fig. 183.
Hay, O. P. 1927 D, 198.
Knowlton, F. H. 1909 B, 709.
Miller, L. H. 1925 A, 241.
Osborn, H. F. 1925 D, 542.
Ridgway, R. 1887 A, 460.
Stejneger, L. 1885 A, 507.

Recent; North America: Pleistocene (McKittrick); California.

CORVIDÆ Vigors.

Vigors, N. A. 1825 A, 445.
Hay, O. P. 1902 A, 537.
Allen, J. A. 1871 A.
Arldt, T. 1907 D, 647.
  1912 A, 706, 752.
Blainville, H. M. D. 1821 A, 203 ("corbeaux").
Blanchard, E. 1859 A, 95 ("corbeaux").
Bonaparte, C. L. 1831 A, 31.
  1840 A, 269.
Dabbene, R. 1910 A, 473, figs. 41, 57.
Evans, A. H. 1899 A, 552.
Grote, H. 1902 A, 60 ("raben").
Heilprin, A. 1887 A, 65.
Hesse, H. 1907 A, 228.
Knowlton, F. H. 1909 B, 770.
Lambrecht, K. 1914 A, 72.
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 413.
Lobley, J. L. 1908 A, 201, 205.
Magnus, H. 1871 A (Corvini).
Pycraft, W. P. 1901 A, 352.
Reichenow, A. 1914 A, 300.
Ridgway, R. 1887 A, 322, 350.
  1901 A, 22.
  1904 A, 252.
Sharpe, R. B. 1891 A, 85.
Shufeldt, R. W. 1909 A, 102.
Steiner, H. 1918 A, 421.
Taschenberg, O. 1899 A, 4008.
Wagner, R. 1843 A ("krähen").
Wallace, A. R. 1876 A, II, 272.
  1894 A, 440.
Wetmore and Miller 1926 A, 345.

GARRULINÆ Swainson.

Swainson, W. 1837 A, 105.
A. O. U. 1910 A, 221.
Wetmore and Miller 1926 A, 345.

CYANOCITTA Strickland. Type *Corvus cristatus* Linnæus.

Strickland, H. E. 1845, Ann. Mag. Nat. Hist., xv, 261, 260.
A. O. U. 1910 A, 222.
Knowlton, F. H. 1909 B, 780.
Newton and Gadow 1896 A, 470.
Reichenow, A. 1914 A, 314.
Ridgway, R. 1887 A, 351, 353, pl. C.

Cyanocitta stelleri (Gmelin).

Gmelin, J. F. 1788, Syst. Nat., I, I, 370 (Corvus).
Hay, O. P. 1927 D, 216, 223.
Miller, L. H. 1911 C, 399, 400.
  1912 A, 73, 75, 80, 114.
Ridgway, R. 1887 A, 353.

Pleistocene (Caves); California.

CORVINÆ Bonaparte.

Bonaparte, C. L. 1831 A, 42.
A. O. U. 1910 A, 227.
Wetmore and Miller 1926 A, 345.

CORVUS Linnæus. Type *C. corax* Linnæus.

Linnæus, C. 1758 A, 105.
Hay, O. P. 1902 A, 537.
Adolphi, H. 1922 A, 418, figs. 69, 70.
Aeby, C. 1873 A, 702.
Allen, J. A. 1893 B, 99.
Arldt, T. 1907 D, 172.
Beddard, F. E. 1898 A, 538, fig. 80.
Bernstein, H. A. 1853 A, 1, pls. i, ii.
Beyer, H. 1907 B, 302, fig. 16.
Bignon, F. 1889 A.
Bittner, F. 1912 A, 2.
Blanchard, E. 1859 A, 95.
Bonsdorff, E. J. 1871 A, 310.
Bronn, H. G. 1848 A, 339.
Chandler, A. C. 1916 C, 383, pl. xxxvii, fig. 115.
Cuvier, G. 1805 A.
Diethelm, M. 1907 A, 44.
Döderlein, L. 1923 A, 142, 162.
Eyton, T. C. 1867 A, 145.
Foote, J. S. 1916 A, 72, pl. vii.
Fürbringer, M. 1888 A, pls. iii, iv, vii.
Gegenbaur, C. 1871 A, 193.
Gemminger, M. 1852 A, 219.
Giebel, C. G. 1855 B, 38.
Heilmann, G. 1926 A, 204, fig. 131.
Heilprin, A. 1887 A, 79.
Hesse, H. 1907 A, 229, pl. viii, fig. 6.
Houssay and Magnan 1912 A, 39 ("corbeaux").
Jacquemin, E. 1834 A, 277, pls. xiv, xv.
  1837 A, 565.
Kessler, K. T. 1841 A, 684.
Kingsley, J. S. 1925 A, 179, fig. 193.

Knowlton, F. H. 1909 B, 771.
Köstlin, O. 1844 A.
Lambrecht, K. 1914 A, 59, 72, pl. viii; text-figs. 3, 4.
Lebedinsky, N. G. 1913 B, 193.
1917 A, 325, figs. 9-11.
Leunis and Ludwig 1883 A, 415.
Lilienthal, G. 1917 A, 271 ("krähe").
Lydekker, R. 1879 A, 13, pls. i, ii.
Mackie, S. J. 1863 C, 107.
Magnan, A. 1922 A, 167.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A.
Mehnert, E. 1887 B, 213.
Newton and Gadow 1896 A, 1064.
Owen, R. 1866 B, figs. 102, 104 ("raven").
Parker, W. K. 1875 A, 715, 716, fig. 26.
1875 D, 106, pl. i, figs. 8, 9.
1888 D, 467.
Reichenow, A. 1914 A, 304, fig. 159.
Ridgway, R. 1887 A, 360, pl. xcvii.
Selenka, E. 1869 A.
Shufeldt, R. W. 1882 B, 327, fig. 2.
Sundevall, C. J. 1886 A, 402, 422.
Virchow, H. 1919 A, 327.
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, II, 274.
Weitzel, A. 1865 A, 328.
Wetmore, A. 1924 A, 17.

Corvus brachyrhynchos Brehm.

Brehm, A. E. 1822, Beitr. Vögelkunde, II, 56.
Hay, O. P. 1927 D, 187.
Knowlton, F. H. 1909 B, 771.
Miller, L. H. 1911 C, 399, 400.
1912 A, 71, 78, 84, 114.
1925 B, 106.
Osborn, H. F. 1925 D, 542.
Ridgway, R. 1904 A, 267 (C. americanus); 746 (C. brachyrhynchos).
Wetmore, A. 1924 A, 17.
Recent; North America: Pleistocene (Caves and La Brea); California.

Corvus corax sinuatus Wagler.

Wagler, J. G. 1829, Isis, XXII, 748.
Abel, O. 1912 F, 22 (C. corax).
Chandler, A. C. 1916 C, 381 (C. corax).
Coues, E. 1884 A, 416, fig. 268 (C. corax).
Hay, O. P. 1927 D, 187, 198, 223 (C. corax).
Knowlton, F. H. 1909 B, 774 (C. corax).
Miller, L. H. 1909 B, 306 (C. corax).
1910 C, 11 (C. corax).
1911 C, 398, 400 (C. corax).
1912 A, 75, 78, 84, 114 (C. corax).
1925 A, 325 (C. corax).
1925 B, 106 (C. corax).
1927 A, 156 (C. corax).
Osborn, H. F. 1910 B, 470 (C. corax).
1925 D, 542 (C. corax).
Ridgway, R. 1904 A, 259 (C. corax).
Recent; Oregon to Honduras: Pleistocene (Caves and La Brea); California.

Corvus shufeldti Sharpe.

Sharpe, R. B. 1909, Hand-list Gen. and Spec. Birds, v, 599 (To replace *C. annectens* Shufeldt, not of Brüggeman).
Hay, O. P. 1902 A, 537 (C. annectens).
1927 D, 244.
Lambrecht, K. 1921 A, 90 (C. annectens).
Miller, L. H. 1912 A, 81, 114 (C. annectens).
Ridgway, R. 1904 A, 256.
Shufeldt, R. W. 1913 B, 157.
Wetmore, A. 1924 A, 15.
Pleistocene (Fossil Lake); Oregon.

Corvus sp. indet.

Hay, O. P. 1927 D, 136, 187. Pleistocene; Arizona, California.
Osborn, H. F. 1925 D, 542. Pleistocene (La Brea); California.
Wetmore, A. 1924 A, 15. Pliocene? (San Pedro Valley); Arizona.

LANIIDÆ Strickland.

Strickland, H. E. 1844, Ann. Nat. Hist., XIII, 415.
A. O. U. 1910 A, 296.
Bonaparte, C. L. 1838 B, 117 (Lanidæ).
1840 A, 260 (Lanidæ).
Coues, E. 1884 A, 336.
Hesse, H. 1907 A, 228.
Knowlton, F. H. 1909 B, 724.
Lambrecht, K. 1914 A, 72.
Leunis and Ludwig 1883 A, 403.
Lobley, J. L. 1908 A, 201, 206.
Magnus, H. 1871 A (Laniadæ).
Newton and Gadow 1896 A, 845.
Pycraft, W. P. 1907 A, 356, 358, 377.
Reichenow, A. 1914 A, 277.
Ridgway, R. 1887 A, 323, 465.
1901 A, 22.
1904 A, 232.
Sharpe, R. B. 1891 A, 86.
Shufeldt, R. W. 1896 A, 357, 371.
Steiner, H. 1918 A, 421.
Sundevall, C. J. 1886 A, 402 (Lanii).
Wallace, A. R. 1876 A, II, 272.
1894 A, 439.
Wetmore and Miller 1926 A, 345.

LANIINÆ Bonaparte.

Bonaparte, C. L. 1831 A, 31 (Laninæ).
Reichenow, A. 1914 A, 279.
Wetmore and Miller 1926 A, 346.

LANIUS Linnæus. Type *L. excubitor* Linnæus.

Linnæus, C. 1758 A, 93.
Allen, J. A. 1893 B, 111.
A. O. U. 1910 A, 296.
Bignon, F. 1889 A.
Coues, E. 1884 A, 337.
Cuvier, G. 1805 A.

Fürbringer, M. 1888 A, 134, pl. iii.
Gemminger, M. 1852 A, 219.
Hesse, H. 1907 A, 228, pl. x, fig. 11.
Kessler, K. T. 1841 A, 500, 680.
Knowlton, F. H. 1909 B, 729.
Lambrecht, K. 1914 A, 72.
Leunis and Ludwig 1883 A, 404.
Magnan, A. 1922 A, 168.
Meckel, J. F. 1825 A.
Newton and Gadow 1896 A, 1072.
Pycraft, W. P. 1907 A, 360, fig. 103.
Reichenow, A. 1914 A, 279.
Ridgway, R. 1887 A, 465, pl. cxiii.
1904 A, 234.
Selenka, E. 1869 A, pl. xvi.
Shufeldt, R. W. 1881 C, 351.

Lanius ludovicianus (Linnæus).

Linnæus, C. 1766, Syst. Nat., ed. 12, I, 134.
A. O. U. 1910 A, 297.
Coues, E. 1884 A, 338.
Hay, O. P. 1927 D, 187.
Knowlton, F. H. 1909 B, 730.
Miller, L. H. 1912 A, 78, 114.
1925 B, 106.
Osborn, H. F. 1925 D, 542.
Ridgway, R. 1887 A, 467.
1904 A, 241.
Shufeldt, R. W. 1881 C, 351, pl. xiv.

Recent; New Brunswick to British Columbia, south to Mexico and Florida: Pleistocene (La Brea); California.

ICTERIDÆ Cabanis.

Cabanis, J. L. 1847, Archiv Naturges., I, 332.
Hay, O. P. 1902 A, 537.
Allen, J. A. 1871 A.
Arldt, T. 1907 D, 660.
1912 A, 706, 750.
Bonaparte, C. L. 1840 A, 270 (Icterinæ).
Chandler, A. C. 1916 C, 381.
Coues, E. 1884 A, 399.
Dabbene, R. 1910 A, 39, 179, 401.
Evans, A. H. 1899 A, 579.
Heilprin, A. 1887 A, 66, 79.
Hesse, H. 1907 A, 230.
Knowlton, F. H. 1909 B, 824.
Lebedinsky, N. G. 1913 A.
Leunis and Ludwig 1883 A, 408.
Lobley, J. L. 1908 A, 201, 205.
Miller, W. D. 1924 A, 3.
Parker, W. K. 1875 D, 110.
Reichenow, A. 1914 A, 364.
Ridgway, R. 1887 A, 321, 365.
1901 A, 19.
1902 A, 169.
Steiner, H. 1918 A, 421.
Sushkin, P. P. 1925 B, 38.
Wallace, A. R. 1876 A, II, 281.
Wetmore, A. 1919 A, 190.
Wetmore and Miller 1926 A, 346.

STURNELLA Vieillot. Type *Alauda magna* Linnæus.

Vieillot, L. J. P. 1816 Analyse, 34.
A. O. U. 1910 A, 235.
Coues, E. 1884 A, 405.
Eyton, T. C. 1867 A, 136 (Sternella).
Knowlton, F. H. 1909 B, 825.
Miller, L. H. 1914 A, 38.
Newton and Gadow 1896 A, 1084.
Reichenow, A. 1914 A, 375, fig. 201.
Ridgway, R. 1887 A, 365, 371, pl. civ.
1902 A, 353.
Shufeldt, R. 1888 D, 309-350.

Sturnella neglecta Audubon.

Audubon, J. J. L. 1844, Birds of Amer., VII, 339, pl. 489.
Coues, E. 1884 A, 406.
Hay, O. P. 1927 D, 172.
Knowlton, F. H. 1909 B, 825.
Miller, L. H. 1912 A, 78, 84, 114.
1914 A, 37.
1925 B, 106.
Osborn, H. F. 1925 D, 542.
Ridgway, R. 1887 A, 372 (S. magna neglecta).
1902 A, 365.

Pleistocene (La Brea and San Pedro beds); California.

XANTHOCEPHALUS Bonaparte. Type *Icterus xanthocephalus* Bonaparte.

Bonaparte, C. L. 1850, Consp. Avium. I, 451.
Allen, J. A. 1893 B, 111, 116, 131.
A. O. U. 1910 A, 232.
Ridgway, R. 1887 A, 365, 368, pl. ci.
1902 A, 346.
Wallace, A. R. 1876 A, II, 282.

Xanthocephalus xanthocephalus (Bonaparte).

Bonaparte, C. L. 1826, Jour. Acad. Nat. Sci. Phila., V, 223 (Icterus).
A. O. U. 1910 A, 232.
Hay, O. P. 1927 D, 187.
Miller, L. H. 1912 A, 78, 114.
1921 C, 130.
Ridgway, R. 1887 A, 368.
1902 A, 347.

Recent; western North America: Pleistocene (La Brea); California.

Identity of remains found at La Brea doubtful.

AGELAIUS Vieillot. Type *Oriolus phœnicius* Linnæus.

Vieillot, L. J. P. 1816, Analyse, 33.
Chandler, A. C. 1916 C, 382.
Coues, E. 1884 A, 403 (Agelæus).
Eyton, T. C. 1867 A, 138.
Hesse, H. 1907 A, 230 (Agelæus).
Miller, L. H. 1925 B, 105 (Agelæus).

Newton and Gadow 1896 A, 457, 530 (Agelæus).
Reichenow, A. 1914 A, 373.
Ridgway, R. 1887 A, 365, 368, pl. ci.
1902 A, 319.
Wallace, A. R. 1876 A, II, 282.
Wetmore, A. 1919 A, 197.

Agelaius gubernator (Wagler).

Wagler, J. G. 1832, Isis, IV, 281 (Psarocolius).
Hay, O. P. 1927 D, 187.
Miller, L. H. 1912 A, 78, 114.
1921 C, 130.
Nelson, E. W. 1897, Auk, XIX, 59 (A. gubernator californicus).
Ridgway, R. 1887 A, 370.
1902 A, 326 (Scolecophagus).

Recent; Washington to southern California and western Arizona: Pleistocene (La Brea); California.

Identity of remains found at La Brea, California, doubtful.

Agelaius sp. indet.

Miller, L. H. 1925 B, 105 (This genus?). Pleistocene (La Brea); California.

EUPHAGUS Cassin. Type *Psarcolius cyanocephalus* Wagler.

Cassin, J. 1867, Proc. Acad. Nat. Sci., Phila., 1866 (1867), 413.
Hay, O. P. 1902 A, 537 (Scolecophagus).
Coues, E. 1884 A, 411 (Scolecophagus).
Miller, L. H. 1925 B, 105.
Reichenow, A. 1914 A, 369.
Ridgway, R. 1887 A, 366, 378, pl. civ (Scolecophagus).
1902 A, 244 (Scolecophagus).

Euphagus affinis Shufeldt.

Hay, O. P. 1902 A, 537 (Scolecophagus).
A. O. U. 1910 A, 391.
Hay, O. P. 1927 D, 244.
Lambrecht, K. 1921 A, 93 (Scolecophagus).
Miller, L. H. 1912 A, 81, 114.
Shufeldt, R. W. 1913 B, 157.

Pleistocene (Fossil Lake); Oregon.

Euphagus cyanocephalus (Wagler).

Wagler, J. 1829, Isis, XXII, 758 (Psarocolius).
A. O. U. 1910 A, 239.
Coues, E. 1884 A, 411 (Scolecophagus).
Hay, O. P. 1927 D, 223.
Miller, L. H. 1911 C, 399, 400.
1912 A, 75, 84, 114.
1921 C, 130.
Ridgway, R. 1887 A, 379 (Scolecophagus).
1902 A, 248 (Scolecophagus).
Wetmore, A. 1919 A, 196.

Recent; western North America: Pleistocene (Caves, La Brea); California.

Identity of remains found at La Brea, California, doubtful.

FRINGILLIDÆ Vigors.

Vigors, N. A. 1825 A, 445.
Hay, O. P. 1902 A, 537.
Allen, J. A. 1871 A.
Anthony, R. 1910 A, 781 ("passereaux").
Arldt, T. 1907 D, 654.
1912 A, 706, 750.
Blanchard, E. 1859 A, 85 ("moineaux").
Bonaparte, C. L. 1831 A, 32.
Chandler, A. C. 1916 C, 381.
Cuvier, G. 1805 A (Fringillæ).
Dabbene, R. 1910 A, 476.
Evans, A. H. 1899 A, 582.
Harting, P. 1886 A, 24.
Heilprin, A. 1887 A, 66, 88, 100.
Hesse, H. 1907 A, 230.
Knowlton, F. H. 1909 B, 831.
Lambrecht, K. 1914 A, 72.
Lebedinsky, N. G. 1913 A.
Lebedinsky, N. G. 1917 A, 327 (Passer).
Leunis and Ludwig 1883 A, 372.
Lobley, J. L. 1908 A, 201, 206.
Magnus, H. 1871 A.
Meckel, J. F. 1825 A ("sperlingsvögel").
Reichenow, A. 1914 A, 404.
Ridgway, R. 1887 A, 321, 382.
1901 A, 19, 24.
Rosenberg, A. 1873 A, 151 ("sperling").
Ruhwandl, G. 1916 A, 75, pls. v, vi; 17 text-figs. (Fringilla).
Stellwaag, F. 1912 A, 627 (Fringilla).
Sushkin, P. P. 1925 B, 37.
Taschenberg, O. 1899 A, 4060.
Wallace, A. R. 1876 A, II, 284.
1894 A, 439.
Wetmore and Miller 1926 A, 346.

FRINGILINÆ Bonaparte.

Bonaparte, C. L. 1831 A, 32, 52.
Wetmore and Miller 1926 A, 346.

PIPILO Vieillot. Type *Fringilla erythrophthalma* Linnæus.

Vieillot, L. J. P. 1816, Analyse, 32.
A. O. U. 1910 A, 279.
Coues, E. 1884 A, 395.
Ridgway, R. 1887 A, 384, 435, pl. cxi.

Pipilo sp. indet.

Hay, O. P. 1927 D, 187. Pleistocene; California.
Miller, L. H. 1912 A, 78. Pleistocene (La Brea); California.
Osborn, H. F. 1925 D, 542. Pleistocene (La Brea); California.

PALÆOSTRUTHUS Wetmore. Type *Palæospiza hatcheri* Shufeldt.

Wetmore, A. 1925 A, 192.

Palæostruthus hatcheri (Shufeldt).

Shufeldt, R. W. 1913 C, 301 (Palæospiza ?).
Lambrecht, K. 1921 A, 92 (Palæospiza).
Wetmore, A. 1925 A, 192, figs. 1, 2.
Pliocene (Republican River); Kansas.

JUNCO Wagler. Type *J. phæonotus* Wagler.

Wagler, J. G. 1831, Isis, XXIV, 26.
Knowlton, F. H. 1909 B, 840, fig. 840.
Ridgway, R. 1887 A, 385, 422, pl. cix.
Stejneger, L. 1885 A, 547.

Junco hyemalis (Linnæus).

Linnæus, C. 1758 A, 183.
A. O. U. 1910 A, 266.
Knowlton, F. H. 1909 B, 840, fig. 232.
Ridgway, R. 1887 A, 422.
Wetmore, A. 1924 A, 18 (This species?).
Recent; North America: Pliocene? (San Pedro Valley); Arizona.

Junco sp. indet.

Hay, O. P. 1927 D, 136. Pliocene; Arizona.

PALÆOSPIZIDÆ Wetmore.

Wetmore, A. 1925 A, 190.

PALÆOSPIZA Allen. Type *P. bella* Allen.

Hay, O. P. 1902 A, 537.
Arldt, T. 1907 D, 85.
Eastman, C. R. 1904 D, 670.
Heilprin, A. 1887 A, 331.
Lambrecht, K. 1916 C, 496.
Wetmore, A. 1925 A, 191.
Zittel and Lucas 1902 A, 278.

Palæospiza bella Allen.

Hay, O. P. 1902 A, 537.
Cockerell, T. D. A. 1906 A, 163.
Lambrecht, K. 1921 A, 92.
Lucas, F. A. 1902 B, 233.
Shufeldt, R. W. 1913 D, 634, fig. 8.
Wetmore, A. 1925 A, 183, pls. i-iv; text-figs. 1, 2.
1928 A, 152.
Miocene (Florissant); Colorado.

BIRD REMAINS OF UNCERTAIN SYSTEMATIC POSITION.

CIMOLOPTERYX Marsh. Type *C. rarus* Marsh.

Hay, O. P. 1902 A, 537.
Fürbringer, M. 1902 B, 629.
Shufeldt, R. W. 1915 D, 11.
Williston, S. W. 1902 K, 953.
Zittel and Schlosser 1911 A, 323.
1923 A, 395.

Cimolopteryx rarus Marsh.

Hay, O. P. 1902 A, 537.
Bowen, C. F. 1915 A, 144.
Lambrecht, K. 1921 A, 50 (C. rara).
Osborn, H. F. 1902 I, 15.
Shufeldt, R. W. 1915 D, 11, 76, pl. vi, fig. 38.
Upper Cretaceous (Lance); Wyoming.

Cimolopteryx retusus Marsh.

Hay, O. P. 1902 A, 537.
Bowen, C. F. 1915 A, 144.
Lambrecht, K. 1921 A, 50 (C. retusa).
Osborn, H. F. 1902 I, 15.
Shufeldt, R. W. 1915 D, 12, 76, pl. vi, fig. 39.
Upper Cretaceous (Lance); Wyoming.

PALÆONORNIS Emmons. Type *P. struthionoides* Emmons.

Emmons, E. 1857 A, 148.

Palæonornis struthionoides Emmons.

Hay, O. P. 1902 A, 537.
Lambrecht, K. 1921 A, 98 (Palænornis).
Wetmore, A. 1928 A, 148.
Triassic?; North Carolina.

FONTINALIS Lesquereux. Type *F. pristina* Lesquereux.

Lesquereux, L. 1883, Rep. U. S. Geol. Surv. Terrs., VIII, 135 (Not *Fontinalis* of Linnæus).
Knowlton, F. H. 1916, Proc. U. S. Nat. Mus., LI, 245.

Fontinalis pristina Lesquereux.

Lesquereux, L. 1883, Rep. U. S. Geol. Surv. Terrs., VIII, 135, pl. xxi, fig. 9.
Knowlton, F. H. 1916, Proc. U. S. Nat. Mus., LI, 245.
Wetmore, A. 1925 A, 184.
1928 A, 152.
Upper Miocene (Florissant); Colorado.
The type specimen was supposed by Lesquereux to be a moss.

YALAVIS Shufeldt. Type *Y. tenuipes* Shufeldt.

Shufeldt, R. W. 1913 D, 649.

Yalavis tenuipes Shufeldt.

Shufeldt, R. W. 1913 D, 649, figs. 11, 12.
Lambrecht, K. 1921 A, 93.
Lydekker, R. 1914 A, 638.
Miocene (Florissant); Colorado.

EOPTERYX O. Meyer. Type *E. mississippiensis* Meyer.

Meyer, O. 1887 A, 14.

Eopteryx mississippiensis Meyer.

Meyer, O. 1887 A, 14, pl. ii, figs. 22*a*-22*c*.
Lambrecht, K. 1916 C, 267 (E. missisippiensis).
Eocene (Jackson); Mississippi.

This species is based on a part of a single dorsal vertebra.

FOSSIL EGGS.

Hay, O. P. 1902 A, 537.
Abel, O. 1926 B, 325, fig. 217.
Morgan and Tallmon 1904 A, 403, pls. xlviii, xlix.
O'Harra, C. C. 1910 A, 123.
Shufeldt, R. W. 1916 D, 80-91, pls. xxi-xxiv
Troxell, E. L. 1916 B, 422, figs. 1-5.

Class MAMMALIA Linnæus.

Hay, O. P. 1902 A, 553.
Abel, O. 1901 A, 28 ("mammifères").
1907 E, (249) ("säugetier").
1910 B, (185) ("säugetiere").
1913 B, 695-759.
1914 A, ("säugetiere").
1919 A, 710.
1920 A, 405.
1921 A, 143, 251, 265 ("säugetiere").
Adams, C. C. 1902 A, 116 ("mammals").
Adams, L. A. 1919 A, 102, 138.
Adolff, P. 1901 C, 420 ("säugethier").
1903 A, 357 ("säugethiere").
1904 B, 54 ("säugetiere").
1905 A, 333 ("säugetiere").
1906 A, 7 ("säuger").
1907 A, 530 ("säugetiere").
1910 B, 226 ("säugetiere").
1913 B, 188 ("mammalier").
1913 C, 7 ("säugetiere").
1915 A, 436 ("säugetiere").
1917 B, 348 ("säugetiere").
Agar, W. E. 1909 A, 377.
1918 A, 130 ("säugetiere").
1920 A, 178 ("säugetiere").
Agassiz, L. 1836 B, 24 ("mammifères").
1844 C, 253 ("mammifères").
1844 D, 137 (Mammifera).
Ahrens, H. 1912 B, 48 ("säugetiere").
Aichel, O. 1917 A, 97 ("säugetiere").
1919 A ("säugetiere").
Albrecht, P. 1883 A, 419 ("säugethiere").
Alexander, G. 1904 A ("säuger").
Allen, J. A. 1905 A, 662 ("mammals").
1908 A, 546.
1909 A, 744.
1912 A, 917.
1912 D, 250.
1912 E, 907.
1913 B, 453.
Allis, E. P. 1918 A, 244.
1919 A, 383, 385.
Allis, E. P. 1919 D, 209.
Altmann, F. 1925 A, 87.
Ameghino, F. 1893 C, 77 ("mammifères").
1893 D, 13 ("mammifères").
1897 B, 256.
1898 B, 497 ("mammifères").
1901 A, 349 ("mammifères").
1905 A ("mamiferos").
1906 A, 77 ("mammifères").
1909 A, 82 ("mammifères").
Anderson, R. J. 1902 C, 785 ("mammals").
1908 A, 546.
1909 A, 744.
1912 A, 917.
1912 D, 250.
1912 E, 907.
1914 A, 533 ("mammals").
Andrews, C. W. 1911 C, 294.
Anthony, R. 1905 A, 853 ("mammifères").
1912 A.
1913 A, 243 ("mammifères").
Arldt, T. 1907 A, 233 ("säugetiere").
1907 C, 676 ("säugetiere").
1907 D, 664.
1907 E, 213 ("säugetiere").
Aulmann, G. 1909 A ("säuger").
Bärthold, —— 1904 A, 365 ("säugetiere").
Baraldi, G. 1877 A, *passim* ("mammiferi").
Barbour, T. 1916 A, 6 ("mammals").
Bardeleben, K. 1885 A, 27 ("säugethiere").
1885 B, 85 ("säugethiere").
1885 C, 149 ("säugethiere").
1889 A, 107 ("säuger").
1889 B, 259.
1893 A, 168 ("säugetiere").
1896 A, 115 ("säugetiere").
1901 A ("säugetiere").
1904 A, 109 ("säugetiere").
1905 A, 16 ("säugetiere").
1905 B, 138 ("säuger").
1905 C, 156 ("säuger").
1905 E, 104 ("säugetiere").

Bardeleben, K. 1906 A, 140 ("säuger").
1907 A, 34 ("säugetiere").
Bardenfleth, K. S. 1913 A, 67 ("mammals").
Barrell, J. 1907 A, 474 ("mammals").
Bateson, W. 1892 A, 103 ("mammals").
Baumgarten, H. 1892 A, 512 ("säugethiere").
Baur, G. 1887 H, 47 ("säugethiere").
1894 B, 350.
Bayer, F. 1897 A, 147 ("mammifères").
Beddard, F. E. 1902 A.
Beecker, A. 1903 A, 596 ("säugethiere").
Beer, G. R. 1926 A, 325.
Behlen, H. 1906 A ("säuger").
Bender, O. 1907 A, 38 ("säuger").
1910 A, 122 ("säuger").
Bensley, B. A. 1902 A, 1.
1903 A, 84.
Bergmann 1841 A, 204 ("säugethiere").
Berry, E. W. 1920 A, 209 ("mammals").
Beyer, H. 1907 A, 260 ("säugetiere").
1908 A, 77, 87 ("säugethiere").
Bittner, F. 1912 A, 4 ("säuger").
Black, N. 1900 A, 4.
Blainville, H. M. D. 1817 A, 106 ("mammifères").
Blatschke, F. 1904 A, 151 ("säugetiere").
Blendinger, W. 1904 A, 452 ("säugetiere").
Bluntschli, H. 1912 B, 351 ("säugetiere").
1913 B, 195 ("säuger").
Boas, J. E. V. 1884 B, 389 ("säugethiere").
1909 A, 524, fig. 1 ("säugetiere").
1914 B, 548, 574 ("säugetiere").
Böker, H. 1927 A, 24, 53, fig. 16 ("ursäugetier").
Bogoljubsky, S. 1914 A, 659.
Bojanus, L. H. 1819 A, 1362 ("säugthier").
Bolk, L. 1912 A, 58 ("säuger").
1912 B, 950 ("mammals").
1913 A ("säugethiere").
1914 A ("säugethiere").
1915 A, 103 ("säugetiere").
1916 A, 720 ("mammals").
1921 C, 219 ("mammals").
1922 A, 107 ("mammals").
1922 B, 55 ("mammals").
Bonaparte, C. L. 1832 A, 283.
1840 A, 4.
Boule, M. 1902 B, 910 ("mammifères").
1905 A, 1662 ("mammifères").
Boulenger, G. A. 1904 C, 480.
1917 C, 457 ("mammifères").
Bradley, O. C. 1903 B, 43 ("mammals").
1906 B, 529 ("mammals").
Branca, W. 1915 A, 7.
Brandes, G. 1900 A, 103 ("säugethiere").
Brandt and Woldrich 1887 A, 1 ("säugethiere").
Branson and Mehl 1928 C, 489 ("mammals").
Brauer, A. 1914 A ("säugetiere").
Braus, H. 1906 A ("säuger").
Broili, F. 1908 A, 6.
1917 A, 565 ("säugetiere").
Bronn, H. G. 1849 A, 781, seq.
Broom, R. 1890 A, 409.
1896 A, 477.
1897 B, 231, 252.
1901 A, 181 ("mammals").
1902 B, 168 ("mammalian").
1902 D, 548 ("mammals").
1903 I, 545.
Broom, R. 1904 A, 494.
1904 B, 89.
1905 E, 75 ("mammals").
1905 F, 40 ("mammals").
1906 A, 106 ("mammals").
1906 C, 437.
1906 E, 369 ("mammals").
1908 A, 1047 ("mammals").
1908 E, 114 ("mammals").
1909 D, 211.
1911 A, 917 ("mammals").
1912 B, 419 ("mammalian").
1913 G, 335 ("mammals").
1913 L, 231 ("mammals").
1913 M, 7 ("mammalian").
1913 N, 87 ("mammals").
1913 P, 225 ("mammals").
1914 G, 302 ("mammals").
1915 C, 1-48.
1924 B, 64, fig. 13.
1926 A, 257 ("mammals").
Bruch, C. 1853 A, 371 ("säugethiere").
1862 A, 77 ("säugethiere").
Burckhardt, R. 1903 A, 107 ("säugetiere").
1906 A, 167 ("säugetiere").
Burlet, H. M. 1916 A, 8 ("säuger").
Cahall, W. C. 1890 A, 231 ("mammals").
Camerano, L. 1915 A, 1 ("mammiferi").
Capitan, L. 1901 A.
Carter, J. T. 1905 A, 136 ("mammals").
1922 A, 599.
Carus, V. 1875 A, 39.
Carus and Engelmann 1861 A, 1261-1305, 1576-1584, 1685-1688, 1698, 1703, 1764, 1805, 1821.
Case, E. C. 1898 C, 623, 820.
1909 C, 20 ("mammals").
Chaine, J. 1918 A, 735 ("mammifères").
Cleland, J. 1863 A, 118 ("mammals").
1863 B, 289.
Cope, E. D. 1884 KK, 32.
1885 BB, 61, 71.
1885 EE, 606, 614 ("mammals").
1891 N, 7, 64.
Coyle, R. F. 1909 A, 582.
Cunningham, J. F. 1897 A, 486.
Cuvier, F. 1807 A, 105 ("mammifères").
1812 A, 268 ("mammifères").
Cuvier, G. 1805 A.
1815 A, 103 ("mammifères").
Dana, J. D. 1863 B, 315 ("mammals").
1863 C, 334 ("mammals").
1863 D, 131 ("mammals").
Daubeny, C. 1844 A, 289.
Dawkins, W. B. 1915 A, 520.
Deinse, A. B. van 1912 A, 347 ("mammals").
1914 A, 289 ("mammals").
Delsman, H. C. 1913 A, 689 ("säugethiere").
Dendy, A. 1907 A, 305.
Deninger, K. 1914 A, 193-214 ("säugetiere").
1915 A, 187-191 ("säugetiere").
Denker, A. 1901 A, 635 ("säugethiere").
Dependorf, T. 1907 A, 539 ("säuger").
1907 C, 97 ("säuger").
Depéret, C. 1905 A, 1517 ("mammifères").
1905 B, 22 ("mammifères").
1905 C, 702 ("mammifères").
1906 A, 618 ("mammifères").
1906 B, 1120 ("mammifères").

Depéret, C. 1907 B ("mammifères").
1909 A, 140 ("mammifères").
Dieterich, K. 1841 A, 55 ("säugethiere").
Dollo, L. 1883 G, 579.
1885 C, 300 ("mammifères").
1889 E, 146, 184 ("mammifères").
1889 G, 674.
1919 A, 33 ("mammifères").
Dombrowski, B. A. 1925 A, 69, fig. 2 ("säugetiere").
Doran, A. H. G. 1878 A, 371.
Drüner, L. 1904 A, 257 ("säuger").
1906 A, 6 ("säugetiere").
Dublin, L. I. 1903 A, 731 ("mammals").
Dubreuil, G. 1913 A ("mammifères").
Duckworth, W. L. H. 1904 A, 13.
Dujardin, F. 1836 A, 318 ("mammifères").
Du Toit, P. J. 1911 A, 417 ("säugetiere").
Dwight, T. 1909 A, 369 ("mammals").
Earl, C. 1897 A, 574.
Eastman, C. R. 1912 C, 658 ("mammals").
1913 B, 678 ("mammals").
1914 B, 689 ("mammals").
1916 A, 656 ("mammals").
1917 A, 120.
Eastman, Gregory and Mathew 1917 A, 120.
Ebner, V. 1906 A ("säugetiere").
Eggeling, H. 1906 A, 103 ("säugetiere").
Eichwald, E. 1832 A, 864 ("säugethiere").
Eimer, G. H. T. 1901 A, 261 ("säuger").
Eisler, P. 1895 A ("säuger").
Elliot, D. G. 1901 A, 1.
Emery, C. 1890 A, 288 ("säugetiere").
1895 A, 226.
1897 D, 601 ("säugetiere").
1901 A, 674 ("säugetheire").
Eschricht, D. F. 1851 A, 111 ("säugethiere").
Fernandez, M. 1921 A, 506 ("säugetiere").
Filatoff, D. 1907 A, 311 ("säugetiere").
Filhol, H. 1889 A, 220 ("mammifères").
Fischer, E. 1901 A, 1 ("säuger").
1903 A, 387 ("säuger").
Fischer, J. B. 1829 A, 1.
Fleischmann, A. 1904 A, 483 ("säugetiere").
1910 A, 691.
Flower, W. H. 1870 A, 239.
Foote, J. S. 1913 A ("mammals").
1916 A, 20, 75 ("mammals").
Forster, A. 1905 A, 89-138.
Fraas, E. 1905 B, 347 ("säugetiere").
Frassetto, F. 1903 A.
1915 A ("mammiferi").
Frech, F. 1906 A, 493 ("säugertiere").
1907 A, 303 ("säugethiere").
Freund, L. 1902 A.
1906 A, 111 ("säugetiere").
1911 A, 377 ("säugetiere").
1912 A, 557 ("säugetiere").
Froriep, A. 1886 A, 69 ("säugethiere").
1905 A, 156 ("mammifères").
1905 B, 111 (Ovis, Bos).
Fuchs, H. 1905 B, 3 ("säugethiere").
1906 A, 1 ("säuger").
1907 A.
1907 C, 24 ("säugetiere").
1908 A, 353 ("säuger").
1908 B, 584 ("säuger").
1908 C ("säuger").
Fuchs, H. 1909 B, 141.
1909 C, 85 ("säuger").
1909 D, 1, 70 ("säuger").
1910 A, 34.
1910 C, 476 ("säuger").
1911 A, 34.
1911 B ("säuger").
1911 D, 97 ("säugetiere").
1912 A, 34, 68, 86.
1912 B, 82, 86.
1912 D, 143.
1914 A, 28 ("säugetiere").
1922 A, 291.
1926 B, 5.
Fürbringer, M. 1902 A, 210.
1904 A.
1905 A, 17 ("säugetierre").
Funccius, T. 1909 A, 370 ("säuger").
Gadow, H. 1901 A, 397.
1901 B, 990 ("säuger").
1902 B, 345.
1912 A, 817.
1913 A, 114 ("mammals").
1914 A, 508 ("mammals").
Gaskell, W. H. 1898 A, 553.
Gaudry, A. 1891 C.
1908 A, 1131 ("mammifères").
Gaupp, E. 1895 A, 57, seq. ("säuger").
1898 B ("säuger").
1899 A, 1004, 1109 ("säuger").
1900 A ("säuger").
1901 A, 43 ("säugetier").
1902 A, 163, 189 ("säuger").
1905 A, 273 ("säugetier").
1905 B, 16 ("säuger").
1905 C, 125 ("säuger").
1905 D, 1037 ("säuger").
1905 E, 159 ("säuger").
1906 A, 32 ("säuger").
1906 B ("säuger").
1908 A, 181 ("säuger").
1908 B ("säuger").
1908 C ("säuger").
1910 A, 529 ("säuger").
1910 B, 355 ("sauger").
1910 C, 310 ("sauger").
1910 D, 83 ("säuger").
1911 A, 418 ("säuger").
1911 B, 97 ("säuger").
1911 C, 445, 454 ("säuger").
1911 D, 609 ("säuger").
1911 E, 320 ("säuger").
1912 B, 215 ("säuger").
1913 A ("säuger").
Gegenbaur, C. 1864 B, 8 ("säugethiere").
1864 C, 175 ("säugethiere").
1865 C.
1867 B, 402 ("säugethiere").
1870 C, 398 ("säugethiere").
1871 A, 211 ("säugethiere").
1880 A, 586 ("mammalien").
1888 A ("säugethiere").
Geikie, J. 1914 A, 324 ("mammals").
Geoffroy St. Hilaire, E. F. 1807 E, 354 ("mammifères").
1817 A, 126 ("mammifères").
1817 B, 188 ("mammifères").
1822 A, 76 ("mammifères").

Geoffroy St. Hiliare, E. F. 1824 D, 435 ("mammifères").
1824 H, 254 ("mammifères").
1825 B, 133 ("mammifères").
1832 A, 354 ("mammifères").
Gervais, P. 1853 B, 31 ("mammifères").
1859 A ("mammifères").
Gessner, I. 1921 A, 271 ("säugetiere").
Ghigi, A. 1900 B, 98 ("mammiferi").
Gidley, J. W. 1906 F, 106 ("mammals").
1919 A, 273.
Giebel, C. G. 1878 C, 853 ("säugethiere").
1883 A.
Gill T. 1873 E, 435.
1881 A, 381.
1886 C, 808.
1898 B, 697 ("mammals").
1902 A, 1034.
1904 A, 537.
1907 A, 491.
1912 D, 789.
Goodrich, E. S. 1916 A, 261, 266.
Goodsir, J. 1857 A ("mammals").
1868 A, 53.
Gottlieb, H. 1914 A, 179 ("säugetiere").
Grant, M. 1904 B.
Gray, J. E. 1825 B, 337.
Gruber, W. 1873 A, 338 ("säugethiere").
Gregory, W. K. 1910 A, 21, 28.
1910 C, 297.
1910 D, 600.
1911 C, 404.
1913 E, 7, 37.
1914 E, 525.
1916 A, 239 ("mammals").
1917 C, 975 ("mammals").
1918 A, 4 ("mammals").
1922 A, 539.
1926 B, 405 ("mammals").
1927 A, 601 ("mammals").
1927 D, 225 ("mammals").
1927 E, 337 ("mammals").
1927 G, 270 ("mammalia").
Gregory and Adams 1915 A, 764 ("mammals").
Gregory and Noble 1924 A, 435 ("mammals").
Haeckel, E. 1868 A, 436, 460, 468.
1873 A, 536 ("säugethiere").
Hagenbach, E. 1841 A, 46 ("säugethiere").
Haller, G. 1922 A, 1 ("säugetiere").
Hanson, F. B. 1918 A, 289 ("mammals").
1919 B, 87.
1920 C, 2 ("mammals").
Hase, A. 1913 A.
Hasse, C. 1871 A ("säuger").
1872 B, 542 ("säugethiere").
1873 D ("säugethiere").
Hasse and Schwarck 1870 A, 21 ("säugetiere").
Hatschek, B. 1889 A, 83 ("säugetiere").
Hay, O. P. 1914 A, 102.
Hayek, H. 1926 A, 176 ("säugetiere").
Heilprin, A. 1887 A, 423.
1901 A, 21473 ("mammals").
Heinrich, G. 1909 A, 781 ("säugetiere").
Hennig, E. 1919 A, 1 ("säuger").
1922 A, 260.
Hensel, R. 1879 A, 529 ("säugethiere").
Henshaw, H. W. 1912 A, 318 ("mammals").
Hertwig, O. 1892 A.
Hertz, M. 1925 A ("säugetiere").
Hilzheimer, M. 1913 A, 517 ("säugetiere").
Hilgard, T. C. 1859 A, 336 ("mammals").
1860 A, 679 ("mammals").
Hoernes, R. 1886 A, 650.
Hogben, L. T. 1919 A, 71.
Hollard, H. 1864 B, 250 ("mammifères").
1864 C, 359 ("mammifères").
Hommes, J. H. 1924 A, 10 ("mammals").
Hopewell-Smith and Tims 1911 A, 939.
Howes, G. B. 1891 A, 153.
1893 C, 585.
1894 A, 77.
1895 B, 736 ("mammals").
Hrdlička, A. 1921 A, 141-176 ("mammals").
Hubrecht, A. A. W. 1897 A, 28.
1908 A, 150.
Huene, F. 1907 A, 155-157.
1910 F, 153-163 ("säugetiere").
1911 G, 151-161 ("säugetiere").
1912 F, 522.
1914 G, pl. vii.
1918 A, 208 ("säugetiere").
1925 C, 174 ("säugetiere").
1925 D, 238.
1926 A, 262 ("säugetiere").
Humphry, G. M. 1870 B, 67.
Huxley, T. H. 1853 A, 150, 158 ("mammals").
1855 A, 82.
1856 A ("mammals").
1856 B, 194 ("mammals").
1859 D, 394, 451.
1859 H, 46.
1862 A, l.
1863 E, 443, 527, 553.
1863 F, 530, 579, 607, 633, 663.
1864 D, i, ii.
1869 G, 436.
1870 F, 527, 531.
1876 F, 183.
1879 A, 395.
1880 E, 457.
Ihering, H. 1880 A, 308 ("säugethiere").
1909 A, 284 ("säugetiere").
1910 A, 113 ("säugetiere").
Inouye, M. 1912 A, 494 ("säugetiere").
Jaeger, G. F. 1842 A, 433 ("säugethiere").
Jaekel, O. 1901 B, 53 ("säugetiere").
1902 C, 610 ("säugetiere").
1903 F, 35 ("säugetiere").
1904 C, 183 ("säugethiere").
1905 C, 134 ("säugetiere").
1906 A, 28 ("säugetiere").
1906 D, 188 ("säugetiere").
1908 A, 140 ("säugetiere").
1908 B, 466 ("säugetiere").
1909 A, 193, 211.
1909 C, 706 ("säugetiere").
1910 D, 123.
1911 A, 197.
1912 A, 609.
1913 B, 194 ("säugetiere").
1913 C, 32 ("säugetiere").
1916 A, 152, 168, 170.
1922 A, 18.
1926 C, 60 ("säugetiere").
1927 A, 268 ("säugetiere").
Jasswoin, G. 1924 A, 97 ("mammals").

Jenkinson, J. W. 1911 A, 305.
Johnson, A. 1883 A, 405 ("mammals").
Joleaud, L. 1919 A, 704 ("mammifères").
Jordan, D. S. 1905 B ("mammals").
1922 C, 177 ("mammals").
Julien, A. 1894 A, 173 ("mammifères").
Kampfen, P. N. 1905 A, 321.
1922 A, 53.
Kehrer, F. A. 1896 A, 347 ("säuger").
Keith, A. 1911 A, 294 ("mammals").
Kerbert, C. 1876 A, 229.
Kerr, J. G. 1923 A, 114.
Kesteven, H. L. 1916 A, 303.
1918 A, 449, 457.
Keyes, C. A. 1922 A, pl. iii.
Kingsbury, B. F. 1926 A, 98 ("mammals").
Kingsley, J. S. 1900 A, 206, 247 ("mammals").
1900 B, 167 ("mammals").
1901 A, 193 ("mammals").
1912 A, 185 ("mammals").
1912 B, 98 ("mammals").
1925 A, 16, 48, 51, 181, 183, 203, 271, 290.
Kjellberg, K. 1904 A, 159.
Klaatsch, H. 1893 B, 651 ("säugethiere").
1913 A, 162 ("säugetiere").
Klaauw, C. J. 1924 B, 599.
Klein, E. E. 1868 A ("säugethiere").
Köstlin, O. 1844 A, 14 ("säugethiere").
Koken, E. 1893 B, 646 ("säugethiere").
1898 B, 143 ("säugethiere").
Korff, K. K. 1906 A, 132 ("säugetiere").
1906 B, 1 ("säugetiere").
Kravetz, L. P. 1906 A, 1 ("säugetiere").
Kükenthal, W. 1913 A, 633.
1914 A, 561 ("säugetiere").
Laloy, L. 1907 A, 583 ("mammifères").
Larger, R. 1913 A, 701 ("mammifères").
Lataste, F. 1887 A, 265 ("mammifères").
Lavocat, A. 1883 A, 1317 ("mammifères").
1885 A, 28, 42 ("mammifères").
1889 A, 39, 50 ("mammifères").
Leboucq, H. 1884 A, 35, 66 ("mammifères").
1904 C, 227 ("mammifères").
Leche, W. 1887 A.
1893 C, 798 ("säuger").
1900 A, 982.
1902 A, 43.
1903 A, 510 ("säugetiere").
1904 A, 219 ("säugetiere").
1910 A, 449 ("säugetiere").
1915 A, 275 ("säugetiere").
1915 B, 257 ("säuger").
1921 A.
Le Damany, P. 1902 A, 334 ("mammifères").
1902 B, 371 ("quadrupèdes").
1903 A, 273 ("quadrupèdes").
1903 B, 275 ("mammifères").
1903 D, 352 ("mammifères").
1903 E, 365 ("mammifères").
1903 G, 127 ("mammifères").
1906 B, 160 ("mammifères").
Ledouble, A. F. 1903 A, 641 ("mammifères").
1906 A, 550 ("mammifères").
Lemoine, V. 1889 A, 233 ("mammifères").
Lepkowski, W. 1897 A, 559.
Lewis, F. T. 1906 A, 506 ("mammals").
Leydig, F. 1859 A, 477 ("säugethiere").
1873 B, 33.
Lindsay, B. 1885 A, 684 ("mammals").
Lobley, J. L. 1908 A, 194.
Loomis, F. B. 1921 A, 188 ("mammals").
Lorenz, L. E. F. 1807 A.
Lubosch, W. 1906 A, 549 ("säugetiere").
1906 B, 323 ("säugetiere").
1907 A, 613 ("säugetiere").
1909 A, 5 ("säugetiere").
1911 A, 311 ("säugetiere").
1911 B, 738-748.
1923 A, 69 ("säugetiere").
1926 A, 109 ("säuger").
Lull, R. S. 1904 C, 1 ("mammals").
1906 B, 554.
1910 D, 153.
1917 B, 295, 308, 322, 338, 539.
1918 C, 134 ("mammals").
Lydekker, R. 1899 B, 922.
1893 F, 174 ("mammals").
1901 A, 645 ("mammals").
1902 B, 373 ("mammals").
1903 D, 101.
1905 D, 230 ("mammals").
1912 C, 8, 9, 17, 26.
Macdonald, W. 1841 A, 131 ("mammals").
1863 A, 57 ("mammals").
Mackie, S. J. 1863 D, 332.
Magitot, E. 1875 A, 46 ("mammifères").
Major, C. J. F. 1899 B, 60.
1901 A, 150.
1901 B, 241 ("mammals").
Mantell, G. A. 1844 A, 820.
Martins, C. 1857 A ("mammifères").
1872 A, 308 ("mammifères").
Matschie, P. 1896 A, 245 ("säugetiere").
Matthes, E. 1921 A, 215, 222 ("säugetiere").
1921 C ("säuger").
Matthew, W. D. 1904 D, 811.
1908 C, 68.
1913 B, 285 ("mammalian").
1914 G, 232 ("mammals").
1915 A, 171.
1916 C, 518 ("mammals").
1916 H, 11.
1916 I, 107 ("mammals").
1923 A, 109.
1928 B, 947.
Matthew and Granger 1917 A, 323.
Mead, C. S. 1904 A, 53 ("mammals").
1906 A, 475.
Meckel, J. F. 1825 A ("säugethiere").
Meek, A. 1907 A, 410 ("mammals").
1911 A, 375 ("mammals").
Merriam, C. H. 1906 A, 243 ("mammals").
Meunier, S. 1903 A, 774 ("mammifères").
Miller, G. S. 1912 B.
1920 B, 380 ("mammals").
1924 C.
Mivart, St. G. 1871 B, 380 ("mammals").
1888 A, 372.
Mivart and Clarke 1879 A, 525 ("mammals").
Montgomery, T. H. 1901 A, 21733 ("mammals").
Moodie, R. L. 1908 D, 443.
1908 H, 221 ("mammals").
1915 H, 638.
1915 I, 139, 159 ("mammals").
1926 A, 91 ("mammals").
Mook, C. C. 1918 A, 465.

Morita, S. 1912 A, 1, figs. 1-4 ("säugetiere").
Müller, F. 1911 A, 335 ("mammals").
Mutel, —— 1921 A, 521 ("mammifères").
Mysberg, W. A. 1917 A, 643-668.
Nat. Sci. 1898 A, 370.
Nauck, E. T. 1923 A, 1.
1926 A, 208 ("säuger").
Nopcsa, F. 1907 A, 228 ("mammals").
1923 E, 1047.
1923 H, 159, 175, 187, tab. ("säugetiere," "mammalier").
1926 A, 634.
Nowikoff, M. M. 1909 A, 1 ("mensch," "maus").
Oehngren, S. 1919 A, 161 ("säugetiere").
Oken, L. 1819 A, 1529 ("säugethiere").
1823 A, 274-350 ("säugethiere").
Olmstead, M. P. 1911 A, 339 ("säugetiere").
Osborn, H. F. 1893 N, 187.
1898 U, 686.
1902 D, 259.
1902 E, 354.
1903 F, 276.
1904 M, 257.
1905 I, 86.
1905 N, 237 ("mammals").
1906 C, 769.
1907 E, 747 ("mammals").
1907 G, 11, 18-35, 37, 44, 91, 94, 96, 100, 219.
1907 H, 613.
1910 D, 737 ("mammals").
1912 C, 595 ("mammals").
1912 L.
1915 D, 285 ("mammals").
1916 E, 511, 602.
1917 B, 316.
1921 D, 1-11.
1924 K, 273 ("mammals").
1925 F, 962 ("mammals").
Osborn and Anthony 1922 A, 219 ("mammals").
Osburn, R. C. 1903 A, 651 ("mammals").
1906 A, 447 ("mammals").
Oswald, F. 1911 A, 403.
Owen, R. 1842 F, 87.
1846 E.
1848 B.
1851 D, 350.
1857 E.
1858 A, 1.
1868 A, 890, 891.
Packard, A. S. 1904 A, 221 ("mammals").
Palacký, J. 1902 B, 141, 150 ("säugethiere").
1902 C, 249 ("säugethiere").
Paramore, R. H. 1910 A, 1393, 1459 ("mammals").
Parker, W. K. 1869 A, 502 ("mammals").
1879 C, 342.
1885 C, 1-119.
1888 C, 397 ("mammals").
Parker and Haswell 1897 A, 417.
Parsons, F. G. 1903 A, 317 ("mammals").
Paterson, A. M. 1901 A, 21 ("mammals").
1902 A, 777.
Paulli, S. 1899 A, 145 ("säugethiere").
1900 A, 179 ("säugethiere").
Perrier, E. 1920 A ("mammifères").
Peter, K. 1902 A, 545 ("säugetiere").
Peters, W. 1867 A, 727 ("säugethiere").
1867 B, 780 ("säugethiere").
Peters, W. 1867 C, 953.
1868 A, 592 ("säugethiere").
1868 B, 388.
1874 A, 40 ("säugethiere").
Petronievics, B. 1917 A, 287 ("mammals").
1919 B, 206 ("mammals").
1921 A, 105 ("mammifères").
Pfeiffer, H. 1854 A.
Pinkus, F. 1904 A, 162 ("säugetiere").
Plieninger, F. 1906 A, 406 ("säugetiere").
Poche, F. 1911 B.
Popowa, N. 1913 A, 282 ("säugetiere").
Pouchet and Chabry 1884 A, 149 ("mammifères").
Pycraft, W. P. 1909 A, 204.
Rabl, C. 1903 A, 166, 172 ("säugetiere").
Regnault, F. 1903 A, 109 ("mammifères").
Rehs, J. 1914 A, 1.
Reichert, C. 1837 A, 120.
Reichert, K. B. 1849 A, 443 ("säuger").
Retterer, E. 1884 A, 467 ("mammifères").
1905 A, 120 ("mammifères").
1905 B, 204 ("mammifères").
1905 D, 366 ("mammifères").
1906 A, 198 ("mammifères").
1908 A, 485 ("mammifères").
1908 B, 535 ("mammifères").
Retterer and Lelièvre 1910 B, 986 ("mammifères").
Retterer and Vallois 1912 C, 432 ("mammifères").
Retzius, A. 1849 A, 593 ("säugethiere").
1852 A, 44 ("säugethiere").
Reynolds, S. H. 1897 A, 343-527.
Römer, F. 1893 A, 526 ("säugetiere").
Röse, C. 1892 F, 399 ("säugetiere").
1892 G, 144 ("säuger.")
Romer, A. S. 1922 A, 39, 41.
1924 A, 132.
1924 C, 95-102, figs. 1-3.
Rosenberg, E. 1895 A, 298 ("säugetiere").
Ruge, G. 1879 A, 192 ("säugethiere").
1892 B, 376 ("säugethiere").
Rutland, J. 1901 A, 21032 ("mammals").
Ryder, J. 1887 A, 344, 352.
1887 B.
Sabatier, A. 1897 A, 806 ("mammifères").
1902 A, 100 ("mammifères").
Salensky, W. 1880 A, 415.
Scharff, R. F. 1895 A, 436 ("mammifères").
Schauinsland, H. 1906 A, 514.
Schenk, F. 1896 A, 214 ("säugethiere").
Schlosser, M. 1898 D, 120 ("säugethiere").
1899 C, 165 ("säugethiere").
1899 I, 345 ("säugethiere").
1899 T, 452 ("säugethiere").
1900 C, 132 ("säuger").
1902 F, 134 ("mammals").
1902 J, 117 ("säugethiere").
1903 G, 144.
Schmalhausen, J. J. 1908 B, 373 ("säugetiere").
Schmidt, O. 1886 A.
Schöne, G. 1902 A, 244 ("säugethiere").
Schoenichen, W. 1900 A, 501 ("säugethiere").
Schorr, G. 1907 A, 25 ("säugetiere").
Schuchert, C. 1915 A, 828, 927 ("mammals").
Schuchert and Barrell 1914 A, 7, 24 ("mammals").

Schuchert and Levene 1927 A, 309.
Schwalbe, G. 1904 A ("säugetiere").
Schwarz, E. 1924 A, 393 ("mammals").
Sclater, P. L. 1875 A, 202 ("mammals").
Scott, W. B. 1913 A, 1, 50, 57, 643.
  1917 A, 32, 33.
  1928 B, 257 ("mammals").
Seeley, H. G. 1872 A, 38 ("mammals").
  1876 C, 157, 175, 186 ("mammals").
  1878 A, 221.
  1899 B, 68.
  1908 B, 377.
  1908 D, 616.
Semon, R. 1901 B, 130 ("säuger").
Sera, G. L. 1921 A, 45 ("mammiferi").
Serres, M. 1852 A ("mammifères").
  1852 B, 179 ("mammifères").
  1863 B, 1028 ("mammifères").
Sewertzoff, A. 1896 A, 274.
Seydel, O. 1899 A ("mammalier").
Shiino, K. 1914 A, 378 ("säuger").
Shimer, H. W. 1903 A, 819 ("mammals").
Shore, T. W. 1887 A, 362.
Shufeldt, R. W. 1911 A, 65.
Simpson, G. G. 1925 B, 564.
  1926 A, 548 ("mammals").
  1926 B, 238.
  1926 E, 6, 10.
  1927 G, 259.
  1928 C, 161.
Sippel, W. 1907 A, 490, 506, 516 ("säuger").
Sixta, V. 1899 A, 329 ("säugethiere").
  1901 A, 321 ("mammalier").
  1905 A, 671.
Smith, G. E. 1911 A, 293.
  1912 A, 424 ("mammals").
  1913 A, 559 ("mammals").
Smith, W. R. 1908 A, 126 ("mammals").
Sollas and Sollas 1913 A, 61 ("mammals").
Sonies, F. 1907 A, 404 ("säugetiere").
Spencer, W. B. 1886 A, 220.
Spurrell, H. G. F. 1906 A, 123 ("mammals").
Stach, J. 1905 A, 283 ("säugetiere").
Starks, E. C. 1926 A, 83.
Steinmann, G. 1907 A, 461.
  1908 A, 213, 231 ("säuger").
  1909 A, 65 ("säuger").
  1910 A, 100 ("säuger").
  1912 B, 717 ("säuger").
Stephan, P. 1900 A, 361 ("mammifères").
Sterling, S. 1908 A, 333 ("säugetiere").
Strasser, H. 1905 A, 139 ("säuger").
  1905 B, 194 ("säugetiere").
Stratz-Haag, C. H. 1906 A, 91 ("säugetiere").
Strecker, C. 1887 A, 310 ("säugethiere").
Stromer, E. 1902 B, 553 ("säugethiere").
  1903 C, 61 ("säugetiere").
  1912 A, 148, 242.
Strong, R. M. 1921 A, 203 ("mammals").
Sushkin, P. P. 1910 A, 241 ("säugetiere").
  1927 A, 307, 319 ("mammals").
Sutton, J. B. 1884 A, 571.
Swinnerton and Howes 1901 A, 70.
Symington, J. 1892 A, 577.
Taschenberg, O. 1899 A, 4365-4708.
Terra, P. 1911 A, 245 ("säugetiere").
Terry, R. J. 1909 A, 525 ("mammals").
Thacker, A. G. 1914 A, 283.
Thäter, K. 1910 A, 511 ("säuger").
Thevenin, A. 1910 A, 58 ("mammifères").
Thilenius, G. 1897 A, 483 ("säugetiere").
Thomas, O. 1911 B, 120 ("mammals").
Thompson, A. H. 1906 A, 262.
Thyng, F. W. 1906 A, 35.
Tims, H. W. M. 1901 A, 265.
  1902 A, 321.
  1903 A, 131.
  1905 B, 1784.
  1911 A, 294.
Todd, T. W. 1922 A, 261.
Toldt, C. 1904 A, 43 ("säugetiere").
  1905 A, 315 ("säugetiere").
Tornier, G. 1888 A, 223 ("säugethiere").
  1891 A, 113 ("säugetiere").
  1894 A, 97 ("säugetiere").
  1894 B, 102 ("säugetiere").
  1909 A, 195 ("säugetiere").
Tornquist, A. 1897 A, 684.
Tourneux, F. and J. P. 1912 A, 57 ("mammifères").
Turner, H. N. 1847 A, 110.
Underhill, B. M. 1910 A, 75 ("mammals").
Vallois, H. V. 1921 B, 974 ("mammifères").
Van Bemmelen, J. F. 1901 A ("säugethiere").
  1914 A, 524 ("mammals").
  1928 A, 283 ("mammifères").
Van den Broeck, A. J. P. 1912 A, 781 ("säuger").
Van den Broeck, E. 1900 A, 60 ("mammifères").
Van Wijhe, J. W. 1905 A, 17 ("säugetiere").
Vaughn, T. W. 1924 A, 688 ("mammals").
Veit, O. 1916 A, 371 ("säugetiere").
  1924 A, 375 ("säuger").
Versluys, J. 1903 A, 173.
  1919 A, 27 ("säugetiere").
Vialleton, L. 1917 A, 190 ("mammifères").
  1919 A, 307 ("mammifères").
Vicq-d'Azyr, F. 1792 A, lxxvi ("quadrupèdes").
  1819 A, 1-100 ("mammifères").
Virchow, H. 1909 A, 418 ("säugetiere").
  1914 A, 87 ("säugetier").
  1914 C, 132 ("säugetiere").
  1921 A, 135 ("säugetiere").
Vogt, C. 1879 A, 245 ("mammifères").
Voit, M. 1909 B, 139 ("säugetiere").
  1923 A, 70 ("säugetiere").
Wagner, R. 1843 A, 9.
Wallace, A. R. 1876 A, I, 497; II, 585.
  1894 A, 433.
Wallisch, W. 1906 A, 307 ("säugetiere").
Walmsley, T. 1918 A, 326 ("mammals").
Watson, D. M. S. 1911 A, 323 ("mammals").
  1913 D, 24 ("mammals").
  1913 G, 228 ("mammals").
  1914 A, 310 ("mammals").
  1914 D, 168 ("mammals").
  1914 J, 1037 ("mammalian").
  1916 A, 342, 345, 356.
  1917 A, 979.
  1917 B, 49.
Weber and Abel 1928 A.
Weidenreich, F. 1913 A, 498 ("säuger").
  1922 A, 32 ("säuger").
  1926 A, 45, 53 ("säugetiere").
Weitzel, A. 1865 A, 318 ("säugethiere").
White, C. A. 1885 A, 62 ("mammals").

Whitehead and Waddell 1911 A, 89.
Wiedersheim, R. 1880 E, 493 ("säugethiere").
1892 A, 55.
Wieland, G. R. 1925 B, 564 ("mammals").
Wilckens, O. 1911 A, 708 ("säugetiere").
Wilder, B. G. 1865 A, 46.
1868 A.
1872 B.
Williston, S. W. 1904 B, 176.
1912 E, 262.
1916 D, 152 ("mammals").
1917 C, 412 ("mammals").
1925 A, 126.
Wiman, C. 1916 D, 413 ("mammals").
Windle, B. C. A. 1905 A, 1055 ("säuger").
Woodward, A. S. 1898 D, 328.
1898 E, 330 ("mammals").
1910 B, 465 ("mammal").
1917 D, lxxvii.
Woodward, A. S. 1923 A, 29, 32.
Woodward, H. 1904 B, 153.
Woodward, M. F. 1894 B, 438.
Woodward and Sherborn 1891 A, 33.
Wortman, J. L. 1903 A, xv, 163.
1921 A, 177.
Wright, W. 1909 A, 678 ("mammals").
Wyman, J. 1867 B, 274 ("mammals").
Young, G. W. 1915 A, 255.
Ziegler, H. E. 1901 A, 232, 235 ("säugethiere")
1924 A, lx ("säugetiere").
Zierler, F. E. 1905 A, 511 ("säugetiere").
Zietzschmann, O. 1917 A, 433 ("säugetiere").
Zittel, K. A. 1895 A, 306.
1897 A, 130.
1901 A, 418 ("mammals").
Zittel and Schlosser 1911 A, 325.
1923 A, 402-689.

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Hay, O. P. 1902 A, 555.
Arldt, T. 1907 D, 147, 390.
Bensley, A. 1903 B, 84.
Berry, E. W. 1920 A, 210.
Broom, R. 1897 B, 252 (Protheria).
1910 B, 765.
1914 B, 118.
Case, E. C. 1898 C, 821.
Cope, E. D. 1891 N, 64, 65.
Duckworth, W. L. H. 1904 A, 20.
Gadow, H. 1912 A, 818.
Gidley, J. W. 1909 A, 624 (Protheria).
Gregory, W. K. 1910 A, 225, 230.
1920 A, 234.
Huxley, T. H. 1880 E, 462.
Lull, R. S. 1910 D, 153.
Lydekker, R. 1902 B, 374.
Matthew, W. D. 1904 D, 811.
1915 A, 270 (Monotremata).
1928 B, 949.
Osborn, H. F. 1898 U, 686.
1899 J, 415.
1907 G, 11, 100.
1907 H, 613.
Parker, W. K. 1885 C, 116.
1886 A, 269.
Reynolds, S. H. 1897 A, 346, 348.
Schuchert, C. 1915 A, 928.
Scott, W. B. 1913 A, 57, 59, 76.
Shufeldt, R. 1911 A, 72.
Smith, G. E. 1911 A, 293.
1912 A, 425.
1913 A, 560 ("prototherian").
Stromer, E. 1912 A, 162, 242.
Thomas, O. 1887 A, 312.
Weber, M. 1904 A, 317 (Monotremata); 302, 317 (Prototheria).
Winge, H. 1923 A, 92.
Woodward, H. 1904 B, 153.
Wortman, J. L. 1902 A, xiv, 21.

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Hay, O. P. 1902 A, 555.
Branca, W. 1915 A, 4.
Broom, R. 1914 B, 133 (Protodontia).
Cope, E. D. 1891 N, 65, 66.
Gregory, W. K. 1910 A, 163, 464.
1922 A, 544.
Hennig, E. 1922 A, 258 ("protodonten").
Hilzheimer, M. 1913 A, 520.
Jaekel, O. 1911 A, 204 (Haplodonta); 205 (Protodonti).
Koken, E. 1893 B, 572.
Osborn, H. F. 1898 U, 686.
1899 J, 415.
Schwarz, E. 1924 A, 419.
Scott, W. B. 1913 A, 59.
Simpson, G. G. 1926 G, 88, 90, 107.
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Weber, M. 1904 A, 358, 361.
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Zittel and Schlosser 1911 A, 358 (Syn. of Dromatheriidæ).
1923 A, 437 (Syn.? Dromatheriidæ).

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Hay, O. P. 1902 A, 555.
Arldt, T. 1907 D, 651 (Dromatheridæ).
1912 A, 662 (Dromatheridæ).
Fuchs, H. 1911 B, 384.
Gregory, W. K. 1910 A, 164.
1922 A, 23.
Haeckel, E. 1893 A, xxiv (Dromatherida).
Hennig, E. 1919 A, 6.
Hennig, E. 1922 A, 260.
Lydekker, R. 1896 C, 277.
Trouessart, E. L. 1905 A, 863 (Dromatheridæ).
Weber, M. 1904 A, 361.
Winge, H. 1923 A, 91.
Zittel and Schlosser 1911 A, 358.
1923 A, 437, 442, 663.

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Hay, O. P. 1902 A, 555.
Abel, O. 1913 B, 709.
1920 A, 406.
Adloff, P. 1903 A, 362, 369, fig. 4.
Bardenfleth, K. S. 1913 A, 75.
Beddard, F. E. 1902 A, 98.
Bolk, L. 1922 A, 111.
Branca, W. 1915 A, 4.
Broom, R. 1908 A, 1059.
Dependorf, T. 1907 C, 99.
Gidley, J. W. 1906 F, 98, fig. 11 (Dromotherium).
Gregory, W. K. 1910 A, 137, 163.
1910 C, 298.
1922 A, 534 (Dromotherium).
Hennig, E. 1919 A, 6.
Hertz, M. 1925 A, 544.
Hilzheimer, M. 1913 A, 520.
Hobbs, W. H. 1901 A, 23.
Huene, F. 1918 A, 208, 210.
1925 C, 179.
Koken, E. 1893 B, 510.
Lankester, E. R. 1905 A, 189, fig. 136.
Lavocat, A. 1896 A, 26.
Lucas, F. A. 1902 B, 186, fig.
Matthew, W. D. 1928 B, 947.
Osborn, H. F. 1905 H, 209 (Dromotherium).
1905 I, 95 (Dromotherium).
1907 G, 18, 193, fig. 43.
Palmer, T. S. 1904 A, 245, 881.
Rice and Gregory 1906 A, 178 ("mammal").
Simpson, G. G. 1925 B, 336, fig. 6.
1926 A, 548.
1926 G, 87, 99.
Simpson, G. G. 1928 E, 155, 165.
Steinmann, G. 1907 A, 465, fig. 807.
Thompson, A. H. 1900 A, 920 (Dromotherium).
Tims, H. W. M. 1903 A, 139.
Trouessart, E. L. 1905 A, 863 (Dromotherium).
Wallace, A. R. 1876 A, I, 134, 160.
Weber, M. 1904 A, 358, 361.
Weber and Abel 1928 A, 85, fig. 48.
Williston, S. W. 1925 B, 245 (Dromotherium).
Woodward, M. F. 1894 B, 447 (Dromotherium).
Zittel and Schlosser 1911 A, 358.
1923 A, 437, 663.

By G. G. Simpson (1926 A, 548) this genus is referred to the cynodont reptiles.

Dromatherium sylvestre Emmons.

Hay, O. P. 1902 A, 556.
Branca, W. 1915 A, 5, fig. 1.
Depéret, C. 1907 B.
Gregory, W. K. 1922 A, 23, fig. 15.
Koken, E. 1893 B, 283.
Lull, R. S. 1917 B, 544, fig. 171.
Lydekker, R. 1896 C, 278.
Osborn, H. F. 1904 F, 4.
Palacký, J. 1903 A, 4.
Philippi, E. 1903 A, 20, fig.
Ruschenberger and Tryon 1879 A, 91.
Schuchert, C. 1910 A, 579 (Dromotherium).
Simpson, G. G. 1926 G, 88, 93, figs. 1, 3.
Van den Broeck, E. 1900 A, 60 (D. silvestre).
Zittel and Schlosser 1911 A, 358, fig. 515.
1923 A, 437, fig. 551.

Triassic; North Carolina.

MICROCONODON Osborn. Type *M. tenuirostris* Osborn.

Hay, O. P. 1902 A, 556.
Abel, O. 1920 A, 406.
Adloff, P. 1903 A, 362, fig. 4.
Branca, W. 1915 A, 4.
Broom, R. 1908 A, 1059.
Depéret, C. 1907 B.
Gregory, W. K. 1910 A, 137, 163.
1922 A, 540.
Hennig, E. 1919 A, 6.
Hertz, M. 1925 A, 544.
Hilzheimer, M. 1913 A, 520.
Hobbs, W. H. 1901 A, 23.
Koken, E. 1893 B, 283.
Matthew, W. D. 1928 B, 947.
Osborn, H. F. 1905 H, 209.
1905 I, 95.
1907 G, 18, 193, fig. 43.
Palmer, T. S. 1903 A, 873 (Tytthoconus).
1904 A, 421, 881 (Microconodon); 699, 881 (Tytthoconus).
Rice and Gregory 1906 A, 178 ("mammal").
Schlosser, M. 1899 I, 346.
Simpson, G. G. 1925 B, 336, fig. 6.
1926 A, 548.
Simpson, G. G. 1926 G, 87, 93, 99.
1928 C, 211.
1928 E, 155, 165.
Thompson, A. H. 1900 A, 921 (Microconodon).
Tims, H. W. M. 1903 A, 139.
Trouessart, E. L. 1905 A, 863 (Tyttoconus).
Weber, M. 1904 A, 358, 361.
Woodward, M. F. 1894 B, 447.

By G. G. Simpson (1926 A, 548) this genus is referred to the cynodont reptiles.

Microconodon tenuirostris Osborn.

Hay, O. P. 1902 A, 556.
Branca, W. 1915 A, 5, fig. 2.
Gregory, W. K. 1922 A, 24, fig. 15.
Osborn, H. F. 1904 F, 5.
Palacký, J. 1903 A, 4.
Philippi, E. 1903 A, 20, fig.
Schuchert, C. 1910 A, 579.
Simpson, G. G. 1926 G, 88, 97, figs. 2, 3.
Trouessart, E. L. 1905 A, 863 (Tyttoconus).
Van den Broeck, E. 1900 A, 60 (Micronodon).

Triassic; North Carolina.

Subclass ALLOTHERIA Marsh.

Marsh, O. C. 1880 F, 239.

The writer acknowledges the aid of Dr. G. G. Simpson in arranging this subclass.

Simpson, G. G. 1928 C, 171.

See also under the order Multituberculata.

Order TRICONODONTA Zittel.

Zittel, K. A. 1893 B, 97.
Abel, O. 1914 A, 45.
Beddard, F. E. 1902 A, 99.
Broom, R. 1914 B, 133 (Triconodontia).
  1924 B, 64, fig. 13.
Gregory, W. K. 1910 A, 170, 172, 464.
  1916 A, 240.
  1922 A, 547.
Hertz, M. 1925 A, 558.
Osborn, H. F. 1893 A, 389 ("triconodonts").
  1893 D, 389, 390 ("triconodonts").
  1899 J, 415.
  1907 G, 11, 21.
Owen, R. 1879 D, 149 ("triconodonts").
Schwarz, E. 1924 A, 419.
Simpson, G. G. 1924 A, 39 ("triconodonts").
  1925 A, 229 ("triconodonts").
  1925 B, 148, 334, 354, 465, 466, 559, 560, 565.
  1926 E, 8 ("triconodonts").
  1927 G, 259.
  1928 C, 171, 183, 195.
  1928 K, 462, 469.
Stromer, E. 1908 B, 168.
Weber and Abel 1928 A, 86.

This order is included in the Allotheria only provisionally.

TRICONODONTIDÆ Marsh.

Marsh, O. C. 1887 A, 341.
Hay, O. P. 1902 A, 566.
Abel, O. 1913 B, 710.
Arldt, T. 1907 C, 676.
  1907 D, 686.
  1911 A, 229 ("triconodontiden").
Case, E. C. 1898 C, 824.
Gregory, W. K. 1922 A, 42.
  1926 B, 410 ("triconodonts").
Hennig, E. 1922 A, 259, 260 ("triconodonten").
Lydekker, R. 1896 C, 273.
Matthew, W. D. 1915 A, 268.
Osborn, H. F. 1898 U, 686.
Palacký, J. 1903 A, 3 ("triconodontiden").
Palmer, T. S. 1904 A, 775, 887.
Simpson, G. G. 1925 B, 357, 465, 466.
  1928 C, 67, 70.
Trouessart, E. L. 1905 A, 860.
Weber, M. 1904 A, 361.
Zittel and Schlosser 1911 A, 359.
  1923 A, 437, 438, 442, 664.

TRICONODONTINÆ Hay.

Hay, O. P. 1902 A, 566.
Osborn, H. F. 1907 G, 22.
Simpson, G. G. 1925 B, 357.
  1928 C, 76.

TRICONODON Owen. Type *T. mordax* Owen.

Hay, O. P. 1902 A, 567.
Abel, O. 1920 A, 418, fig. 635.
Adloff, P. 1903 A, 360.
Ärnbäck-Christie-Linde A, 1912 B, 275.
Bardenfleth, K. S. 1913 A, 71.
Beddard, F. E. 1902 A, 99.
Behlen, H. 1906 A, 210.
Bensley, B. A. 1903 A, 181.
Dependorf, T. 1907 C, 98.
Fuchs, H. 1911 B, 384.
Gidley, J. W. 1906 E, 665.
  1906 F, 96, fig. 12.
Gregory, W. K. 1910 A, 173, 176.
  1922 A, 547, fig. 22.
Heilprin, A. 1887 A, 335.
Hertz, M. 1925 A, 558, 569.
Lydekker, R. 1896 C, 273.
  1899 B, 926.
  1914 A, 630.
Matthew, W. D. 1922 A, xiii.
Osborn, H. F. 1904 G, 321.
  1904 K, 256.
  1907 G, 25, 218, 222, figs. 8, 207.
Owen, R. 1860 E, 317, 318.
Owen, R. 1879 D, 149.
Röse, C. 1892 G, 147.
Simpson, G. G. 1924 A, 39.
  1925 A, 229.
  1925 B, 149, 152, 336, 352, 355, 466, 559, 565, figs. 6, 21.
  1926 H, 212.
  1927 G, 260, figs. 1, 4.
  1928 C, 214, fig. 10.
  1928 K, 462.
Thomas, O. 1888 A, 447.
Tims, H. W. M. 1903 A, 139.
  1905 B, 1786.
Trouessart, E. L. 1905 A, 861.
Weber, M. 1904 A, 341, 343, 355, 358, 359, 361.
Weber and Abel 1928 A, 86, fig. 50.
Willett, E. W. 1881 A, 377, fig.
Woodward, A. S. 1912 B, 100, pl. xv.
Zittel and Schlosser 1911 A, 359.
  1923 A, 437.

Triconodon bisulcus having been referred to the genus *Trioracodon*, *Triconodon* is at present without a representative in North America.

TRIORACODON Simpson. Type *Triconodon ferox* Owen.

Simpson, G. G. 1928 B, 88, fig. 19.
  Consult also the citations under *Triconodon*.

Trioracodon bisulcus (Marsh).

Hay, O. P. 1902 A, 567 (Triconodon).
Gidley, J. W. 1906 F, 109, pl. v, figs. 1, 1a (Triconodon).
Gilmore, C. W. 1909 B, 39 (Triconodon).

Mook, C. C. 1916 A, 134 (Triconodon).
Simpson, G. G. 1925 B, 152, 357, figs. 1-4; 338, 351, 354, figs. 11, 12 (Triconodon. This species?).
Simpson, G. G. 1928 B, 88, text-fig. 19.
1928 K, 462, fig. 1.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

PRIACODON Marsh. Type *Tinodon ferox* Marsh.

Hay, O. P. 1902 A, 567.
Abel, O. 1922 C, 438, fig. 374.
Gregory, W. K. 1922 A, 44.
Hennig, E. 1919 A, 6.
Osborn, H. F. 1907 G, 25, fig. 8 (Triconodon).
Simpson, G. G. 1924 A, 39.
1925 A, 229.
1925 B, 149, 159, 336, 344, 355, 465, figs. 1, 2, 6, 15, 16; 559, 563, 564, figs. 1, 2.
1926 G, 102, fig. 3.
1926 H, 212.
1928 C, 195.
Trouessart, E. L. 1905 A, 861.
Van den Broeck, E. 1900 A, 61.
Weber, M. 1904 A, 361.
Zittel and Schlosser 1911 A, 359.
1923 A, 437.

Priacodon ferox Marsh.

Hay, O. P. 1902 A, 567.
Cannon, G. L. 1906 B, 196 (This species?).
Gilmore, C. W. 1909 B, 39 (Priacodon, Tinodon).
Leche, W. 1902 A, 37 (Triconodon).
Lull, R. S. 1917 B, 545, fig. 172 (Triconodon).
Mook, C. C. 1916 A, 133.
Seeley, H. G. 1893 B, 275, fig. (Triconodon).
Simpson, G. G. 1925 B, 159, 165, 344, 357, figs. 5, 15; 341, 342, figs. 13, 14 (This species?).
Woodward, A. S. 1923 C, 80, fig. 75.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming, Colorado?

Priacodon grandævus Simpson.

Simpson, G. G. 1925 B, 350, 357, figs. 20, 27.
Upper Jurassic (Morrison); Wyoming.

Priacodon lulli Simpson.

Simpson, G. G. 1925 B, 346, 357, figs. 17, 18.
Upper Jurassic (Morrison); Wyoming.

Priacodon robustus (Marsh).

Hay, O. P. 1902 A, 567 (Tinodon).
Gilmore, C. W. 1909 B, 39 (Tinodon).
Mook, C. C. 1916 A, 134 (Tinodon).
Simpson, G. G. 1924 A, 39.
1925 A, 229.
1925 B, 162, 165, 357, figs. 6, 7.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

AMPHILESTINÆ Osborn.

Osborn, H. F. 1888 G, 228.
Simpson, G. G. 1925 B, 357.
Weber, M. 1904 A, 361 (Amphilestidæ).

PHASCOLODON Simpson. Type *P. gidleyi* Simpson.

Simpson, G. G. 1925 B, 334, 467, 559, 565.
1926 H, 212.
1928 C, 213.

Phascolodon gidleyi Simpson.

Simpson, G. G. 1925 B, 334, 357, fig. 8.
Upper Jurassic (Morrison); Wyoming.

APLOCONODON Simpson. Type *A. comoënsis* Simpson.

Simpson, G. G. 1925 B, 148, 149, 336, 356, 559, 565.
1926 H, 212.
1928 C, 210.

Aploconodon comoënsis Simpson.

Simpson, G. G. 1925 B, 148, 149, 336, 356, 357, figs. 9, 10.
Upper Jurassic (Morrison); Wyoming.

Order SYMMETRODONTA Simpson.

Simpson, G. G. 1925 B, 559, 563, 568, 569.
1928 C, 97, 175, 183, 195.
1928 K, 462, 469.
Weber and Abel 1928 A, 86.
This order is arranged only provisionally in the Allotheria.

TINODONTIDÆ Marsh.

Marsh, O. C. 1879 F, 216.
Hay, O. P. 1902 A, 567 (Tinodontinæ).
Hennig, E. 1921 A, 261 (Tinodontidæ).
Marsh, O. C. 1887 F, 288 (Phascolotheriidæ).
Osborn, H. F. 1907 G, 22 (Phascolotheriinæ).
Palmer, T. S. 1904 A, 774, 887 (Tinodontidæ).
Simpson, G. G. 1925 B, 451, 465, 466, 469 (Spalacotheriidæ).
1928 C, 98, 175 (Spalacotheriidæ).

TINODON Marsh. Type *T. bellus* Marsh.

Hay, O. P. 1902 A, 567 (Tinodon); 568 (Menacodon).
Abel, O. 1914 A, 45.
1922 C, 437, fig. 368 (Tinodon); 437, fig. 370 (Menacodon).
Bardenfleth, K. S. 1913 A, 71.
Bensley, B. A. 1902 A, 4.
Broom, R. 1909 C, 136 (Menacodon).

Gidley, J. W. 1906 F, 101.
Gregory, W. K. 1910 A, 173 (Menacodon).
1916 A, 240, fig. 2 (Menacodon).
1922 A, 84 (Tinodon, Menacodon).
Hennig, E. 1919 A, 6 (Tinodon, Menacodon).
Osborn, H. F. 1907 G, 25, figs. 9, 43 (Menacodon); fig. 10 (Tinodon).
Palmer, T. S. 1904 A, 680, 887 (Tinodon); 409, 887 (Menacodon).
Simpson, G. G. 1925 B, 165, 451, 464-467, 563, 569, fig. 1.
1926 H, 212.
1928 C, 214.
Trouessart, E. L. 1905 A, 861 (Tinodon, Menacodon).
Van den Broeck, E. 1900 A, 61.
Weber, M. 1904 A, 361 (Tinodon, Menacodon).
Weber and Abel 1928 A, 86, 87, fig. 50.
Zittel and Schlosser 1911 A, 359 (Menacodon).
1923 A, 437 (Tinodon, Menacodon).

Tinodon bellus Marsh.

Hay, O. P. 1902 A, 567.
Gilmore, C. W. 1909 B, 39.
Gregory, W. K. 1922 A, 47, fig. 24.
Mook, C. C. 1916 A, 133.
Simpson, G. G. 1925 B, 451, 459, figs. 1-3; 569.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Tinodon lepidus Marsh.

Hay, O. P. 1902 A, 567 (T. lepidus); 568 (Menacodon rarus).
Gilmore, C. W. 1909 B, 39 (T. lepidus, Menacodon rarus).
Gregory, W. K. 1922 A, 47, fig. 24 (Menacodon rarus).
Merrill, G. P. 1907 A, 46 (Menacodon rarus).
Mook, C. C. 1916 A, 133 (T. lepidus, Menacodon rarus).
Simpson, G. G. 1925 B, 451, 456, 459, figs. 4, 5; 569.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Tinodon sp. indet.

Simpson, G. G. 1925 B, 158. Upper Jurassic (Morrison); Wyoming.

AMPHIDONTIDÆ Simpson.

Simpson, G. G. 1925 B, 451, 460, 469, 569.
Simpson, G. G. 1928 C, 98.

AMPHIDON Simpson. Type *A. superstes* Simpson.

Simpson, G. G. 1925 B, 451, 460, 468, 469, 558, 563, 569, figs. 1, 2.
1926 H, 212.
1928 C, 209.
Weber and Abel 1928 A, 87.

Amphidon æquicrurius Simpson.

Simpson, G. G. 1925 B, 451, 463, 465, figs. 8, 9; 569.
Upper Jurassic (Morrison); Wyoming.

Amphidon superstes Simpson.

Simpson, G. G. 1925 B, 451, 460, 465, figs. 6, 7; 569.
Upper Jurassic (Morrison); Wyoming.

Order PANTOTHERIA Marsh.

Marsh, O. C. 1880 F, 239.
Gregory, W. K. 1910 A, 171, 172, 177, 196, 464 (Trituberculata).
1916 A, 241 (Trituberculata).
1922 A, 26, 31, 48, 55, 56, 59, 85, 99 (Trituberculata).
Hertz, M. 1925 A, 543 (Trituberculata).
Jaekel, O. 1911 A, 206 (Trituberculati).
Osborn, H. F. 1891 in Zittel, K. A., 1893 B, (1891), 96, 100 (Trituberculata).
1907 G, 12, 22, 115 (Trituberculata).
1910 B, 519 (Trituberculata).
Schwarz, E. 1924 A, 419 (Trituberculata).
Simpson, G. G. 1926 B, 238 ("trituberculates").
1928 B, 306 ("pantotheres").
1928 C, 106, 214.
1928 K, 462, 469.
Weber and Abel 1928 A, 86 (Trituberculata).
Zittel and Schlosser 1911 A, 360 (Pantotheridæ).
1923 A, 438 (Pantotheriidæ).

This order is placed in the Allotheria only provisionally.

PAURODONTIDÆ Marsh.

Hay, O. P. 1902 A, 568.
Abel, O. 1913 B, 710.
Hennig, E. 1921 A, 261.
Leche, W. 1907 A, 47 (Peralestidæ).
Osborn, H. F. 1907 G, 23.
Simpson, G. G. 1927 C, 410.
1928 B, 306.
1928 C, 113, 120, 212.
Zittel and Schlosser 1911 A, 361 (Paurodontinæ).
1923 A, 439 (Paurodontinæ).

PAURODON Marsh. Type *P. valens* Marsh.

Hay, O. P. 1902 A, 569.
Abel, O. 1922 C, 437, fig. 367.
Ameghino, F. 1898 C, 74.
Ameghino, F. 1902 D, 439.
1906 A, 38.
Gidley, J. W. 1906 F, 101, pl. v, fig. 5.

Gregory, W. K. 1910 A, 195.
Hennig, E. 1919 A, 6.
Osborn, H. F. 1907 G, 29, 219, figs. 26, 207.
Palmer, T. S. 1904 A, 517, 884.
Simpson, G. G. 1925 B, 563, fig. 1.
1926 H, 213.
1927 C, 410.
1928 B, 308.
1928 C, 212.
Van den Broeck, E. 1900 A, 62.
Weber, M. 1904 A, 361.
Zittel and Schlosser 1911 A, 361.
1923 A, 439.

Paurodon valens Marsh.

Hay, O. P. 1902 A, 569.
Ameghino, F. 1903 A, 161, figs. 83, 85.
Gilmore, C. W. 1909 B, 39.
Gregory, W. K. 1922 A, 50.
Merrill, G. P. 1907 A, 54.
Mook, C. C. 1916 A, 133.
Trouessart, E. L. 1905 A, 859.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

ARCHÆOTRIGON Simpson. Type *A. brevimaxillus* Simpson.

Simpson, G. G. 1927 C, 410.
1926 H, 213 (No definition).
1928 C, 210.

Archæotrigon brevimaxillus Simpson.

Simpson, G. G. 1927 C, 410.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

TATHIODON Simpson. Type *Tanaodon agilis* Simpson.

Simpson, G. G. 1927 E, 265 (To replace *Tanaodon*, preoccupied).
1926 H, 213 (Tanaodon; no definition).
1927 C, 410 (Tanaodon; preoccupied).
1928 C, 195.

Tathiodon agilis Simpson.

Simpson, G. G. 1927 C, 410 (Tanaodon).
1927 E, 71.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

DRYOLESTIDÆ Marsh.

Hay, O. P. 1902 A, 569.
Hennig, E. 1921 A, 261.
Leche, W. 1907 A, 59 (Stylacodontidæ).
Lydekker, R. 1888 F, 384 (Stylacodontidæ).
Osborn, H. F. 1888 C, 235 (Stylodontidæ).
1907 G, 23 (Amblotheriidæ or Stylacodontidæ).
Seeley, H. G. 1893 B, 274.
Simpson, G. G. 1927 C, 411.
1928 B, 306.
1928 C, 210.
Van den Broeck, E. 1900 A, 62 (Amblotheridæ).
Weber, M. 1904 A, 358, 361 (Stylacodontidæ).
Weber and Abel 1928 A, 128 (Stylacodontidæ).
Winge, H. 1917 A, 194 (Stylacodontidæ).
Zittel and Schlosser 1911 A, 106 (Stylodontidæ).
1923 A, 439 (Amphilestinæ).

DRYOLESTES Marsh. Type *D. priscus* Marsh.

Hay, O. P. 1902 A, 569 (Dryolestes); 570 (Asthenodon).
Ameghino, F. 1902 D, 438.
Bardenfleth, K. S. 1913 A, 90.
Bensley, B. A. 1902 A, 4.
Bigot, A. 1897 A, 462.
Bolk, L. 1914 A, 20.
Dollo, L. 1889 G, 675, 676.
Gidley, J. W. 1906 E, 666.
1906 F, 96, pl. v, figs. 2, 3; 99, text-fig. 12.
1922 A, 268.
Gregory, W. K. 1916 A, 244, pl. i, E.
1918 A, 5, fig. 2.
1922 A, 51 (Asthenodon); 534, pl. v (Dryolestes).
Heilprin, A. 1887 A, 335.
Hennig, E. 1922 A, 212.
Hertz, M. 1925 A, 578, fig. 32.
Lankester, E. R. 1905 A, 189, fig. 136.
Lavocat, A. 1896 A, 26 (Drolestes).
Lydekker, R. 1896 C, 277.
Osborn, H. F. 1904 G, 322, pl. xxi, fig. 1.
1904 K, 256.
1907 G, 23, 27, 30, 218, 220, figs. 14, 31-34, 206, 207; 30, fig. 35 (Asthenodon).
Osborn, H. F. 1910 B, 519.
Palmer, T. S. 1904 A, 246, 876 (Dryolestes); 125, 876 (Asthenodon).
Schlosser, M. 1899 J, 354.
Simpson, G. G. 1925 B, 563, fig. 1.
1927 C, 411, 412 (Dryolestes): 411 (Asthenodon a syn.).
1928 C, 211.
Steinmann, G. 1907 A, 465, fig. 808.
Trouessart, E. L. 1905 A, 859 (Dryolestes); 860 (Asthenodon).
Van den Broeck, E. 1900 A, 62 (Dryolestes, Asthenodon).
Weber, M. 1904 A, 361.
Weber and Abel 1928 A, 88.
Zittel and Schlosser 1911 A, 360 (Syn. of Phascolestes).
1923 A, 425, 439, fig. 525.

Dryolestes obtusus Marsh.

Hay, O. P. 1902 A, 569.
Gilmore, C. W. 1909 B, 38.
Mook, C. C. 1916 A, 132.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Dryolestes priscus Marsh.

Hay, O. P. 1902 A, 569 (D. priscus, Stylacodon validus); 570 (Asthenodon segnis).
Gilmore, C. W. 1909 B, 38 (D. priscus); 39 (Stylacodon validus, Asthenodon segnis).
Mook, C. C. 1916 A, 131 (Dryolestes priscus, Asthenodon segnis).
Osborn, H. F. 1907 G, 30, fig. 32 (Phascolestes priscus).
Woodward, A. S. 1923 C, 80, fig. 75 (Dryolestes priscus).
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Dryolestes tenax Marsh.

Hay, O. P. 1902 A, 569.
Bowen, C. F. 1915 A, 144.
Lull, R. S. 1915 D, 323, 345.
Palacký, J. 1903 A, 4.
Simpson, G. G. 1927 F, 130 (Genus indet.)
Upper Cretaceous (Lance); Wyoming.

Dryolestes vorax Marsh.

Hay, O. P. 1902 A, 570.
Gilmore, C. W. 1909 B, 38.
Merrill, G. P. 1907 A, 35.
Mook, C. C. 1916 A, 132.
Osborn, H. F. 1907 G, 30, figs. 31, 33, 34. (Phascolestes).
Simpson, G. G. 1927 C, 411 (Not a Dryolestes).
Woodward, A. S. 1923 C, 80, fig. 75.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Dryolestes sp. indet.

Gregory, W. K. 1922 A, 55, figs. 31, 32.

HERPETAIRUS Simpson. Type *Dryolestes arcuatus* Marsh.

Simpson, G. G. 1927 C, 413.
1926 H, 213 (No definition).
1928 C, 195.

Herpetairus arcuatus (Marsh).

Hay, O. P. 1902 A, 569 (Dryolestes).
Gilmore, C. W. 1909 B, 38 (Dryolestes).
Mook, C. C. 1916 A, 131 (Dryolestes).
Simpson, G. G. 1927 C, 413.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

AMBLOTHERIUM Owen. Type *A. soricinum* Owen.

Owen, R. 1871 A, 32, pl. ii, figs. 1, 2.
Hay, O. P. 1902 A, 569 (Stylacodon); 570 (Laodon).
Abel, O. 1920 A, 418, fig. 635 (Stylodon).
1922 C, 437, fig. 369 (Stylodon), fig. 371 (Laodon).
Ameghino, F. 1902 D, 438 (Laodon).
Bolk, L. 1922 A, 112 (Stylodon).
Depéret, C. 1912 A, 707 (Stylodon).
Flower and Lydekker 1891 A, 31, 114, fig. 4.
Gregory, W. K. 1922 A, 51 (Stylacodon, Laodon).
Heilprin, A. 1887 A, 335 (Stylacodon).
Koken, E. 1893 B, 374 (Stylacodon).
Lydekker, R. 1887 A, 274.
1888 F, 384 (Stylacodon).
Nicholson and Lydekker 1889 A, 1276.
Osborn, H. F. 1907 G, 24, 29, fig. 29 (Stylacodon); 29, fig. 30 (Laodon).
1910 B, 519.
Palmer, T. S. 1904 A, 650, 877 (Stylacodon); 91, 876 (Amblotherium); 651, 877 (Stylodon); 364, 876 (Laodon).
Schuchert, C. 1910 A, 582 (Stylacodon).
Seeley, H. G. 1893 B, 274 (Laodon).
Simpson, G. G. 1926 G, 100 (Stylodon, Stylacodon).
1926 H, 213 (Stylacodon).
1927 C, 412.
1927 G, 262.
1928 B, 307, fig. 2.
1928 C, 209, fig. 40.
1928 K, 463, fig. 2.
Trouessart, E. L. 1905 A, 860 (Stylacodon); 859 (Laodon).
Van den Broeck, E. 1900 A, 62 (Laodon).
Weber, M. 1904 A, 361 (Stylacodon, Amblotherium, Laodon).
Weber and Abel 1928 A, 88.
Winge, H. 1923 A, 49, 94 (Stylacodon, Stylodon).
Zittel and Schlosser 1911 A, 361 (Stylodon).
1923 A, 439 (Stylodon).

Amblotherium debile Simpson.

Simpson, G. G. 1927 C, 411 (To replace *Dryolestes gracilis* Marsh, preoccupied).
Hay, O. P. 1902 A, 569 (Dryolestes gracilis).
Gilmore, C. W. 1909 B, 38 (Dryolestes).
1914 A, 25 (Dryolestes).
Marsh, O. C. 1881 F, 513 (Dryolestes gracilis; preoccupied).
Mook, C. C. 1916 A, 131 (Dryolestes).
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Amblotherium gracilis (Marsh).

Hay, O. P. 1902 A, 569 (Stylacodon gracilis); 570 (Laodon venustus).
Gilmore, C. W. 1909 B, 39 (Stylacodon); 39 (Laodon venustus).
Marsh, O. C. 1887 A, 337, pl. ix, fig. 5 (Laodon venustus).
Merrill, G. P. 1907 A, 61 (Stylacodon); 43 (Laodon venustus).
Mook, C. C. 1916 A, 133 (Stylacodon); 133 (Laodon venustus).
Simpson, G. G. 1927 C, 412.
Woodward, A. S. 1923 C, 80, fig. 75 (Laodon venustus).
Upper Jurassic or Lower Cretaceous; Wyoming.

LAOLESTES Simpson. Type *L. eminens* Simpson.

Simpson, G. G. 1927 C, 411.
1926 H, 213 (No definition).
1928 C, 210.

Laolestes eminens Simpson.

Simpson, G. G. 1927 C, 411.
1928 K, 463, fig. 2.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

KEPOLESTES Simpson. Type *S. coloradensis* Simpson.

Simpson, G. G. 1927 C, 413.
1926 H, 213 (No definition).
1928 C, 211.

Kepolestes coloradensis Simpson.

Simpson, G. G. 1927 C, 413.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

MELANODON Simpson. Type *M. oweni* Simpson.

Simpson, G. G. 1927 C, 413.
1926 H, 213 (No definition).
1928 C, 195.

Melanodon oweni Simpson.

Simpson, G. G. 1927 C, 413, 414.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

MALTHACOLESTES Simpson. Type *M. osborni* Simpson.

Simpson, G. G. 1927 C, 414.
1926 H, 213 (No definition).
1928 C, 195.

Malthacolestes osborni Simpson.

Simpson, G. G. 1927 C, 414.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

EUTHLASTES Simpson. Type *E. cordiformis* Simpson.

Simpson, G. G. 1927 C, 414.
1926 H, 213 (No definition).
1928 C, 195.

Euthlastes cordiformis Simpson.

Simpson, G. G. 1927 C, 414.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

MICCYLOTYRANS Simpson. Type *M. minimus* Simpson.

Simpson, G. G. 1927 C, 414.
1926 H, 213 (No definition).
1928 C, 195.

Miccylotyrans minimus Simpson.

Simpson, G. G. 1927 C, 414.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

PELICOPSIS Simpson. Type *P. dubius* Simpson.

Simpson, G. G. 1927 C, 414.
1926 H, 213 (No definition).
1928 C, 195.

Pelicopsis dubius Simpson.

Simpson, G. G. 1927 C, 414.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

DICROCYNODONTIDÆ Osborn.

Osborn, H. F. 1888 F, 1078.
Hay, O. P. 1902 A, 568 (Amphitheriidæ).
Abel, O. 1914 A, 49 ("diplocynodontiden").
Gregory, W. K. 1922 A, 31, 35, 48.
Osborn, H. F. 1907 G, 24.
Seeley, H. G. 1893 B, 275.
Simpson, G. G. 1927 C, 415.
1928 B, 306.
1928 C, 211.
Zittel and Schlosser 1911 A, 361 (Diplocynodontinæ).
1923 A, 439 (Diplocynodontinæ).

DICROCYNODON Marsh. Type *Diplocynodon victor* Marsh.

Hay, O. P. 1902 A, 568.
Abel, O. 1922 C, 438, fig. 377.
Bardenfleth, K. S. 1913 A, 91.
Broom, R. 1909 C, 137.
Fuchs, H. 1911 B, 384.
Gidley, J. W. 1906 E, 666.
1906 F, 100, pl. v, fig. 4.
Gregory, W. K. 1910 A, 183, 195.
1922 A, 59 (Diplocynodon).
Hennig, E. 1919 A, 6 (Diplocynodon).
Osborn, H. F. 1907 G, 24 (Diplocynodon); 219, figs. 4, 4a (Dicrocynodon).
Palmer, T. S. 1904 A, 228, 887.
Seeley, H. G. 1893 B, 275 (Diplocynodon).
Simpson, G. G. 1925 B, 563, fig. 1.
1926 H, 213.
1927 C, 409, 415.
1928 B, 307, fig. 2.

Simpson, G. G. 1928 C, 211.
Van den Broeck, E. 1900 A, 61.
Weber, M. 1904 A, 361.
Zittel and Schlosser 1911 A, 361 (Diplocynodon).
1923 A, 439 (Diplocynodon).

Dicrocynodon victor Marsh.

Hay, O. P. 1902 A, 568.
Gilmore, C. W. 1909 B, 38 (Diplocynodon).
Lull, R. S. 1917 B, 546, pl. xvi; text-fig. 174 (Diplocynodon).
Mook, C. C. 1916 A, 132.
Simpson, G. G. 1927 C, 416.
Trouessart, E. L. 1905 A, 862.
Woodward, A. S. 1923 C, 80, fig. 75.
Zittel and Schlosser 1911 A, 361, fig. 520 (Diplocynodon).
1923 A, 439, fig. 556 (Diplocynodon).
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Dicrocynodon sp. indet.

Gregory, W. K. 1922 A, 60, fig. 35.

Docodon Marsh. Type *D. striatus* Marsh.

Hay, O. P. 1902 A, 568.
Abel, O. 1922 C, 438, fig. 372.
Bensley, B. A. 1902 A, 4.
Broom, R. 1903 L, 345.
Gregory, W. K. 1910 A, 137.
1922 A, 59.
Osborn, H. F. 1907 G, 28, fig. 21.
Palmer, T. S. 1904 A, 241, 887.
Seeley, H. G. 1893 B, 275.
Simpson, G. G. 1926 H, 213.
1927 C, 415.
Trouessart, E. L. 1905 A, 862.
Van den Broeck, E. 1900 A, 61.
Weber, M. 1904 A, 361.

Docodon striatus Marsh.

Hay, O. P. 1902 A, 568.
Gilmore, C. W. 1909 B, 38.
Mook, C. C. 1916 A, 132.
Simpson, G. G. 1928 K, 463, figs. 2, 3.
Woodward, A. S. 1923 C, 80, fig. 75.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Ennacodon Marsh. Type *Ennodon crassus* Marsh.

Hay, O. P. 1902 A, 568.
Abel, O. 1922 C, 438, fig. 376 (Enneodon).
Osborn, H. F. 1907 G, 28, fig. 19 (Enneodon).
Palmer, T. S. 1904 A, 259, 887.
Seeley, H. G. 1893 B, 275 (Enneodon).
Simpson, G. G. 1926 H, 213.
1927 C, 415.
Trouessart, E. L. 1905 A, 862.
Van den Broeck, E. 1900 A, 61.

Ennacodon affinis Marsh.

Hay, O. P. 1902 A, 568.
Gilmore, C. W. 1909 B, 38.
Merrill, G. P. 1907 A, 35 (Enneodon).
Mook, C. C. 1916 A, 132.
Trouessart, E. L. 1905 A, 862.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Ennacodon crassus Marsh.

Hay, O. P. 1902 A, 568.
Gilmore, C. W. 1909 B, 38.
Merrill, G. P. 1907 A, 35 (Enneodon).
Mook, C. C. 1916 A, 132.
Simpson, G. G. 1927 C, 415.
Trouessart, E. L. 1905 A, 862.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Order MULTITUBERCULATA Cope.

Cope, E. D. 1884 Y, 687.
Hay, O. P. 1902 A, 556 (Allotheria).
Abel, O. 1913 B, 701 (Allotheria).
1914 A, 34 ("allotherien").
1919 A, 712.
1920 A, 416.
1922 B, 2 ("multituberculaten").
1922 E, 381, 383 ("multituberculaten").
1923 A, 216 ("multituberculaten").
1926 E, (136).
Adloff, P. 1903 A, 372 ("multituberculaten").
Ameghino, F. 1893 B, 445.
1893 C, 77 (Diprotodonta).
1893 D, 16.
1902 D, 424.
1903 A, 113, 156 (Allotheria); 154 (Plagiaulacoidea).
1905 C, 351 (Allotheria).
1906 A, 358.
Arldt, T. 1907 D, 637 (Allotheria).
1907 E, 207 (Allotheria).
1912 A, 669, 679 (Allotheria).
Bardenfleth, K. S. 1913 A, 84 (Allotheria).
Beddard, F. E. 1902 A, 96, 105 (Allotheria).
Bensley, B. A. 1902 A, 7.
Bluntschli, H. 1911 B, 378 ("multituberculaten").
Bolk, L. 1913 A, 120 ("multituberculaten").
1922 A, 109.
Branca, W. 1915 A, 3, 19 (Allotheria).
Broom, R. 1910 B, 760.
1911 C, 319.
1914 B, 115, 117, 120, 130.
1914 D, 140.
1924 B, 64, fig. 13.
Chardin, T. 1922 A, 13 ("multituberculés").
Carter, J. T. 1922 A, 604, 605.
Case, E. C. 1898 C, 822.
Cockerell, Miller, and Prinz 1914 A, 349 ("multituberculates").
Cope, E. D. 1885 BB, 73.
1891 N, 65, 66 (Multituberculata).
Cross, W. 1909 A, 43 ("mammals").
Depéret, C. 1912 A, 706 ("multituberculés").
Dollo, L. 1889 G, 675 (Allotheria).
Gadow, H. 1913 A, 117.

Gidley, J. W. 1909 A, 623 (Allotheria).
Gill, T. 1881 A, 383 (Allotheria).
Granger, W. 1915 B, 152.
Granger and Simpson 1928 A, 1 ("multituberculates").
Gregory, W. K. 1910 A, 164, 464 (Allotheria); 169 (Multituberculata).
1912 C, 190.
1920 A, 137.
1922 A, 27, 63.
1927 D, 231 ("multituberculates").
Hay, O. P. 1910 B, 293 (Allotheria).
Hennig, E. 1919 A, 6 (Allotheria).
1922 A, 243, 258, 260 ("multituberculaten").
Hertz, M. 1925 A, 544 (Allotheria).
Hilzheimer, M. 1913 A, 520 ("multituberculaten").
Huene, F. 1918 A, 208.
Jaekel, O. 1911 A, 207.
Loomis, F. B. 1922 A, 62 ("allotheres").
Lydekker, R. 1896 C, 280.
1909 B, 204.
1915 C, 623.
Major, C. J. F. 1899 B, 61.
Matthew, W. D. 1905 D, 55 ("multituberculates").
1906 B, 357.
1909 C, 91.
1914 B, 383.
1915 A, 262.
1915 K, 436 ("multituberculates").
1916 A, 479.
1921 D, 211, 212, 222.
1928 B, 948, 949.
Osborn, H. F. 1898 U, 686.
1907 G, 11, 101 (Allotheria).
1909 D, 33, 35, 40.
1910 B, 174.
Palacký, J. 1902 B, 141 ("allotherien").
1903 A, 7 ("allotherien").
Reynolds, S. H. 1897 A, 348.
Röse, C. 1892 F, 403 ("multituberculaten").
Schlosser, M. 1895 B, 361, 362.
1898 D, 121.
1899 T, 452.
1900 B, 299.
Schwarz, E. 1924 A, 419.
Scott, W. B. 1913 A, 627, 642 (Allotheria).
Simpson, G. G. 1925 C, 9.
1926 D, 228.
1926 E, 8 ("multituberculates").
1927 D, 36 ("multituberculates").
1927 F, 121 ("multituberculates").
1928 C.
1928 F, 1.
1928 K, 462.
Simpson and Elftman 1928 A, 1.
Sinclair, W. J. 1906 B, 443, 444.
Steinmann, G. 1907 A, 466.
1909 A, 82.
Stromer, E. 1912 A, 167, 243.
Terra, P. 1911 A, 247 ("allotherien").
Tims, H. W. W. 1901 A, 261.
1903 A, 134.
Trouessart, E. L. 1905 A, 864 (Allotheria).
Van den Broeck, E. 1900 A, 60 (Allotheria).
Weber, M. 1904 A, 356 (Allotheria, Multituberculata).
Weber and Abel 1928 A, 85 (Multituberculata).
Williston, S. W. 1909 A, 397 ("multituberculates").
Wiman, C. 1923 A, 225.
Winge, H. 1923 A, 91, 93.
Woodward, A. S. 1911 A, 278.
1923 C, 79.
Woodward, H. 1904 B, 153 (Multituberculati).
Zierler, F. E. 1905 A, 513 ("allotherien").
Zittel, K. A. 1895 A, 307 (Allotheria).
Zittel and Schlosser 1911 A, 351 (Allotheria).
1923 A, 429, 663.

Superfamily PLAGIAULACOIDÆ, new form.

Simpson, G. G. 1925 C, 9 (Plagiaulacoidea).
Simpson, G. G. 1928 C, 31 (Plagiaulacoidea).

PLAGIAULACIDÆ Gill.

Hay, O. P. 1902 A, 557 (Bolodontidæ); 558 (Plagiaulacidæ).
Abel, O. 1912 F, 542 ("plagiaulaciden").
1913 B, 702.
1914 A, 37 ("plagiaulaciden").
1919 A, 714.
Ameghino, F. 1889 B, 280.
1893 B, 440, 444.
1893 C, 78.
1893 D, 15.
1902 B, 11 (Neoplagiaulacidæ).
1903 A, 158 (Neoplagiaulacidæ).
1904 A, 8, 9 (Bolodon).
Arldt, T. 1907 D, 641 (Bolodontidæ); 674 (Plagiaulacidæ); 686, 706 (Neoplagiaulacidæ).
1912 A, 662 (Microlestidæ); 668, 678, 686, 706 (Plagiaulacidæ, Neoplagiaulacidæ).
Beddard, F. E. 1902 A, 97, 98 (Plagiaulacidæ, Bolodontidæ).
Broom, R. 1896 B, 563.
1914 B, 118 (Bolodontidæ).
Case, E. C. 1898 C, 822 (Plagiaulacidæ, Bolodontidæ).
Chardin, T. 1922 A, 16 ("plagiaulacidés").
Depéret, C. 1907 B ("plagiaulacidés").
Dollo, L. 1889 G, 675 (Bolodon).
Gaudry, A. 1901 B, 94 (Bolodon).
Gidley, J. W. 1909 A, 612.
Gregory, W. K. 1922 A, 27, 41.
Hay, O. P. 1902 A, 558 (Plagiaulacinæ).
Hennig, E. 1919 A, 6.
1922 A, 219, 260.
Leche, W. 1902 A, 28.
Lydekker, R. 1896 C, 283 (Bolodontidæ); 284 (Plagiaulacidæ).
1909 B, 204.
Major, C. J. F. 1899 B, 69.
Marsh, O. C. 1889 F, 179 (Allodontidæ).
Matthew, W. D. 1909 C, 91, 100 (Plagiaulacidæ, Bolodontidæ).
1914 B, 387.
1915 A, 184.

Matthew, W. D. 1921 D, 211, 212, 217.
Osborn, H. F. 1907 G, 24, 103, 104 (Bolodon); 106 (Plagiaulacidæ).
1909 D, 34.
1910 B, 103, 111, 119, 124, 518.
Palmer, T. S. 1904 A, 787.
Schlosser, M. 1898 B, 361 (Plagiaulacidæ, Bolodontidæ).
1900 B, 299.
Scott, W. B. 1913 A, 627.
Simpson, G. G. 1928 C, 213.
Steinmann, G. 1907 A, 467 (Plagiaulacidæ, Bolodontidæ).
Tims, H. W. M. 1901 A, 282 (Plagiaulacidæ); 284 (Chirogidæ).
Trouessart, E. L. 1905 A, 866, 875 (Plagiaulacidæ); 869, 875 (Neoplagiaulacidæ).
Van den Broeck, E. 1900 A, 65 (Bolodon).
Weber, M. 1904 A, 361 (Bolodontidæ); 357, 361 (Plagiaulacidæ).
Weber and Abel 1928 A, 80, 83, 84, 90.
Winge, H. 1923 A, 91, 93.
Zierler, F. E. 1905 A, 513.
Zittel and Schlosser 1911 A, 352.
1923 A, 430, 442.

Plagiaulax Falconer. Type *P. becklesii* Falconer.

Hay, O. P. 1902 A, 558.
Abel, O. 1912 F, 543, fig. 417.
1920 A, 418, fig. 635.
1922 C, 392.
Ameghino, F. 1889 A, 269, 275, 927.
1893 C, 77.
1904 A, 8, 9.
Beddard, F. E. 1902 A, 99.
Broom, R. 1905 A, 98.
1910 B, 764.
1914 B, 115, 120, 131.
1925 A, 16.
Chardin, T. 1922 A, 16.
Cope, E. D. 1885 BB, 78.
Depéret, C. 1907 B.
Dollo, L. 1889 G, 675.
Gervais, P. 1859 A, 487.
Gidley, J. W. 1909 A, 625, fig. 9.
Gill, T. 1881 A, 383.
Gregory, W. K. 1910 A, 169.
1920 A, 235.
1922 A, 29, 41, fig. 21.
Hennig, E. 1919 A, 6.
1922 A, 199.
Hoernes, R. 1886 A, 654.
Huene, F. 1925 C, 179.
Koken, E. 1893 B, 282, 371, 426.
Lavocat, A. 1896 A, 26.
Lemoine, V. 1889 A, 236.
Lydekker, R. 1896 C, 284.
1909 B, 204.
1910 F, 664.
Matthew, W. D. 1915 A, 264.
1916 A, 480.
Osborn, H. F. 1907 G, 24, fig. 48.
Owen, R. 1860 E, 319.
Palacký, J. 1903 A, 4.
Palmer, T. S. 1904 A, 541, 788.
Schlosser, M. 1899 I, 346.
Schmidt, O. 1886 A, 100, fig. 2.
Seeley, H. G. 1893 B, 276.
Simpson, G. G. 1925 C, 7, 10.
1928 C, 213.
Tims, H. W. M. 1903 A, 146.
Van den Broeck, E. 1900 A, 65.
Weber, M. 1904 A, 361.
Woodward, A. S. 1911 A, 278.
1923 C, 81, fig. 77.
Zittel and Schlosser 1911 A, 352.
1923 A, 431, 664, fig. 535.

At present no North American species are referred to this genus.

Ctenacodon Marsh. Type *C. serratus* Marsh.

Hay, O. P. 1902 A, 557 (Allodon); 558 (Ctenacodon).
Abel, O. 1914 A, 37 (Ctenacodon, Allodon).
Ameghino, F. 1889 A, 270, 275.
1903 A, 117, 152 (Ctenacodon, Allodon).
Bigot, A. 1897 A, 462.
Broom, R. 1905 A, 98.
1910 B, 764.
1914 B, 120 (Ctenacodon); 117, 120 (Allodon).
Dollo, L. 1889 G, 675 (Ctenacodon, Allodon).
Gaudry, A. 1901 B, 94 (Allodon).
Gill, T. 1881 A, 383.
Gregory, W. K. 1922 A, 42 (Ctenacodon, Allodon).
Hennig, E. 1919 A, 6 (Ctenodon, Allodon).
Huene, F. 1925 C, 179, 181.
Koken, E. 1893 B, 371 (Ctenacodon, Allodon).
1922 A, 230, 242 (Allodon, Ctenacodon).
Matthew, W. D. 1915 A, 264, 269.
Osborn, H. F. 1907 G, 102, fig. 50 (Ctenacodon); 104, fig. 53 (Allodon).
Palacký, J. 1903 A, 4 (Ctenacodon, Allodon).
Palmer, T. S. 1904 A, 89, 787 (Allodon); 205, 288 (Ctenacodon).
Schlosser, M. 1921 A, 130.
Schmidt, O. 1886 A, 100.
Schuchert, C. 1910 A, 582 (Ctenacodon, Allodon).
Schuchert and Levene 1927 A, 310, fig.
Simpson, G. G. 1925 C, 4, 6, 7, 10.
1926 D, 238, 241, fig. 5.
1926 H, 213.
1928 C, 210.
Thomas, O. 1888 A, 447.
Trouessart, E. L. 1905 A, 866 (Ctenacodon); 867 (Allodon).
Weber, M. 1904 A, 361 (Ctenacodon); 367 (Allodon).
Zittel and Schlosser 1911 A, 353 (Ctenacodon, Allodon).
1923 A, 431, 664 (Ctenacodon, Allodon).

Ctenacodon laticeps (Marsh).

Hay, O. P. 1902 A, 557 (Allodon).
Abel, O. 1922 C, 437 (Allodon).
Gilmore, C. W. 1909 B, 38 (Allodon).
Hennig, E. 1922 A, 239 (Allodon).

Merrill, G. P. 1907 A, 21 (Allodon).
Mook, C. C. 1916 A, 131 (Allodon).
Woodward, A. S. 1923 C, 82, fig. 78 (Allodon).
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Ctenacodon serratus Marsh.

Hay, O. P. 1902 A, 559 (C. serratus, C. nanus).
Abel, O. 1922 C, 437, fig. 366.
Broom, R. 1914 B, 117.
Gilmore, C. W. 1909 B, 38 (C. serratus, C. nanus).
Hennig, E. 1922 A, 239.
Huene, F. 1925 C, 179, fig. 2.
Mook, C. C. 1916 A, 132 (C. serratus, C. nanus).
Simpson, G. G. 1927 D, 36, 38 (C. nanus, a syn.).
1928 C, 36.
Trouessart, E. L. 1905 A, 866.
Woodward, A. S. 1923 C, 82, fig. 78.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Psalodon Simpson. Type *Ctenacodon potens* Marsh.

Simpson, G. G. 1926 D, 239, 250.
1926 H, 213.
1927 D, 38.
1928 C, 213.

Psalodon fortis (Marsh).

Hay, O. P. 1902 A, 557 (Allodon).
Gilmore, C. W. 1909 B, 38 (Allodon).
Merrill, G. P. 1907 A, 21 (Allodon).
Mook, C. C. 1916 A, 131 (Allodon).
Simpson, G. G. 1927 D, 38.
Woodward, A. S. 1923 C, 82, fig. 78 (Allodon).
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Psalodon potens (Marsh).

Unless otherwise indicated the authors, as cited, refer this species to *Ctenacodon*.
Hay, O. P. 1902 A, 558.
Ameghino, F. 1903 A, 180, figs. 111, 112.
Gilmore, C. W. 1909 B, 38.
Huene, F. 1925 C, 180, fig. 2.
Merrill, G. P. 1907 A, 32.
Mook, C. C. 1916 A, 132.
Simpson, G. G. 1926 D, 250 (Psalodon).
1927 D, 38 (Psalodon).
Tims, H. W. M. 1903 A, 142.
Trouessart, E. L. 1905 A, 867.
Woodward, A. S. 1923 C, 82, fig. 78.
Zittel and Schlosser 1911 A, 353, fig. 503.
1923 A, 431, fig. 538.
Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

PTILODONTIDÆ Simpson.

Simpson, G. G. 1928 C, 52.

Allacodon Marsh. Type *A. lentus* Marsh.

Hay, O. P. 1902 A, 557.
Abel, O. 1914 A, 37.
Dollo, L. 1889 G, 676.
Hennig, E. 1919 A, 6.
1922 A, 242.
Koken, E. 1893 B, 426.
Palmer, T. S. 1904 A, 88, 787.
Trouessart, E. L. 1905 A, 868.
Zittel and Schlosser 1911 A, 353.
1923 A, 431.

Allacodon fortis Marsh.

Hay, O. P. 1902 A, 557.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Merrill, G. P. 1907 A, 21.
Trouessart, E. L. 1905 A, 868.
Upper Cretaceous (Lance); Wyoming.

Allacodon lentus Marsh.

Hay, O. P. 1902 A, 557.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Trouessart, E. L. 1905 A, 868.
Upper Cretaceous (Lance); Wyoming.

Allacodon pumilis Marsh.

Hay, O. P. 1902 A, 557.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Merrill, G. P. 1907 A, 21.
Zittel and Schlosser 1911 A, 353, fig. 502.
1923 A, 431, fig. 537.
Upper Cretaceous (Lance); Wyoming.

Allacodon rarus Marsh.

Hay, O. P. 1902 A, 557.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Merrill, G. P. 1907 A, 21.
Upper Cretaceous (Lance); Wyoming.

Neoplagiaulax Lemoine. Type *N. eocænus* Lemoine.

Hay, O. P. 1902 A, 559.
Abel, O. 1913 B, 703.
Ameghino, F. 1893 C, 78, 80.
1903 A, 117, 152.
1904 A, 8.
Bardenfleth, K. S. 1913 A, 82.
Broom, R. 1914 B, 117.
Chardin, T. 1922 A, 13, text-fig. 6.
Depéret, C. 1905 C, 703.
1908 A, 111.
1912 A, 706.
Gaudry, A. 1901 A, 504.

Haug, E. 1911 A, 1527.
Heilprin, A. 1887 A, 336.
Hennig, E. 1919 A, 6.
Lemoine, V. 1885 C, 213, pl. xii.
1889 A, 236.
Matthew, W. D. 1909 C, 100.
1915 A, 264, 269.
Osborn, H. F. 1910 B, 103, 106, 108, 518.
Owen, R. 1885 A, 28, figs. 1-3.
Palacký, J. 1903 A, 4.
Schlosser, M. 1921 A, 130, 136.
Schmidt, O. 1886 A, 100.
Scott, W. B. 1913 A, 627.
Simpson, G. G. 1926 D, 229.
Trouessart, E. L. 1905 A, 869.
Weber, M. 1904 A, 357, 361.
Zittel and Schlosser 1911 A, 353.
1923 A, 431.

The species formerly referred to this genus are arranged under *Eucosmodon*.

EUCOSMODON Matthew and Granger. Type *Neoplagiaulax americanus* Cope.

Matthew and Granger 1921 A, 1.
Hay, O. P. 1921 A, 559 (Neoplagiaulax, in part).
Granger and Simpson 1928 A, 2.
Matthew, W. D. 1928 B, 961.
Matthew, Granger, Simpson 1928 A, 4.
Simpson, G. G. 1928 C, 31.
Simpson and Elftman 1928 A, 2, figs. 1-6.
Zittel and Schlosser 1923 A, 431.

Eucosmodon americanus (Cope).

Hay, O. P. 1902 A, 559 (Neoplagiaulax).
Gardner, J. H. 1910 A, 729 (Neoplagiaulax).
Granger and Simpson 1928 A, 2.
Matthew, W. D. 1909 C, 91 (Neoplagiaulax).
1914 B, 384 (Neoplagiaulax).
Matthew and Granger 1921 A, 1.
Reeside, J. B. 1924 A, 38 (Neoplagiaulax).
Trouessart, E. L. 1905 A, 870 (Neoplagiaulax).
Paleocene (Puerco); New Mexico.

Eucosmodon molestus (Cope).

Hay, O. P. 1902 A, 559 (Neoplagiaulax).
Gardner, J. H. 1910 A, 729 (Neoplagiaulax).
Granger, W. 1917 A, 823 (Neoplagiaulax).
Matthew, W. D. 1909 C, 91 (Neoplagiaulax).
1914 B, 384 (Neoplagiaulax).
Reeside, J. B. 1924 A, 41 (Neoplagiaulax).
Trouessart, E. L. 1905 A, 870 (Neoplagiaulax).
Paleocene (Torrejon); New Mexico.

Eucosmodon ultimus Granger and Simpson.

Granger and Simpson 1928 A, 2, 2 figs.
Lower Eocene (Wasatch); Wyoming.

PTILODUS Cope. Type *P. mediævus* Cope.

Hay, O. P. 1902 A, 557 (Chirox); 559 (Ptilodus).
Abel, O. 1912 F, 542.
1913 B, 702, fig. 2.
1914 A, 36.
1920 A, 417.
1922 E, 371, 372.
1923 A, 216.
Ameghino, F. 1889 A, 1023.
1893 C, 80.
1893 D, 15.
1903 A, 147, 152, figs. 110, 113.
1906 A, 360.
Arldt, T. 1907 D, 79 (Chirox).
Beddard, F. E. 1902 A, 101.
Berry, E. W. 1920 A, 210.
Broom, R. 1910 B, 763.
1914 B, 117, 121, 131 (Ptilodus); 120 (Chirox).
1914 D, 140.
Brown, B. 1907 A, 840.
Chardin, T. 1922 A, 15, 48.
Dall, W. H. 1898 A, 347 (Chirox).
Gaudry, A. 1901 A, 504.
Gidley, J. W. 1909 A, 611, 613.
1914 A, 141.
Gregory, W. K. 1910 A, 169.
1912 C, 190.
1920 A, 235.
1922 A, 28, 42.
Haug, E. 1911 A, 1527 (Chirox, Ptilodus).
Hay, O. P. 1910 B, 292, 294.
Hennig, E. 1919 A, 6.
1922 A, 203, 216, 230.
Huene, F. 1918 A, 208, 210.
Koken, E. 1893 B, 426.
Loomis, F. B. 1922 A, 62.
Lydekker, R. 1909 B, 204.
1910 F, 665, figs.
Matthew, W. D. 1906 B, 357.
1909 C, 100 (Ptilodus, Chirox).
1915 A, 264, 269.
1924 E, 749.
1928 B, 949, fig. 4.
Matthew, Granger, Simpson 1928 A, 2.
Osborn, H. F. 1902 I, 9.
1907 G, 106, figs. 48, 55 (Ptilodus); 103, 104, figs. 50, 54 (Chirox).
1910 B, 106, 108, 518, fig. 28.
1912 G, 233, fig. 1.
Palmer, T. S. 1904 A, 183, 787 (Chirox); 597 788 (Ptilodus).
Perrier, E. 1920 A, 341.
Reagan, A. B. 1903 A, 82.
Schlosser, M. 1898 B, 361 (Chirox).
1921 A, 130.
Seeley, H. G. 1883 A, 413.
Simpson, G. G. 1925 C, 4, 9, 10, 11.
1926 D, 229, fig. 5.
1927 B, 9.
1928 C, 213.
1928 I, 9, 12.
Simpson and Elftman 1928 A, 15.
Stromer, E. 1924 A, 252.
Trouessart, E. L. 1905 A, 870 (Ptilodus); 868 (Chirox).
Weber, M. 1904 A, 358, 361 (Ptilodus); 361 (Chirox).
Weber and Abel 1928 A, xxiv, 84, fig. 46.
Williston, S. W. 1912 F, 92.
Zittel and Schlosser 1911 A, 353.
1923 A, 432, 664, 665, 666.

Ptilodus admirabilis nom. nov. To replace *P. gracilis* Gidley, not of Osborn, 1893.

Abel, O. 1912 F, 542, fig. 416 (P. gracilis).
1914 A, 37, fig. 11 (P. gracilis).
1920 A, 417, fig. 630 (P. gracilis).
1922 E, 382 (P. gracilis).
Broom, R. 1910 B, 763 (P. gracilis).
1914 B, 122, figs. 1, 2, 5 (P. gracilis).
Gardner, J. H. 1910 A, 729 (P. gracilis).
Gidley, J. W. 1909 A, 616, pl. lxx, text-figs. 1-6, 8 (P. gracilis).
Hennig, E. 1922 A, 214, 224, 256, pl. iv, fig. 6 (P. gracilis).
Lull, R. S. 1915 D, 326 (P. gracilis).
1917 B, 545, fig. 173 (P. gracilis).
Lydekker, R. 1909 B, 204 (P. gracilis).
Osborn, H. F. 1910 B, 106, fig. 28 ("Ptilodus").
Scott, W. B. 1913 A, 642, 643, figs. 303, 304 (P. gracilis).
Simpson, G. G. 1926 D, 233, fig. 3 (P. gracilis).
Simpson and Elftman 1928 A, 2, 15 (P. gracilis).
Stanton, T. W. 1909 A, 264 (P. gracilis).
Weber and Abel 1928 A, 85, fig. 45 (P. gracilis).
Zittel and Schlosser 1911 A, 353, fig. 504 (P. gracilis).
1923 A, 432, fig. 539 (P. gracilis).
Paleocene (Fort Union); Montana.

Ptilodus formosus (Marsh).

Hay, O. P. 1902 A, 560 (Cimolomys).
Bowen, C. F. 1915 A, 146 (Halodon).
Gidley, J. W. 1909 A, 623 (This species?).
Lull, R. S. 1915 D, 326 (Ptilodus); 323, 345 (Cimolomys. This species?).
Osborn, H. F. 1891 E, 600, fig. 2c (Halodon).
Stanton, T. W. 1909 A, 264 (This species?).
Trouessart, E. L. 1905 A, 870 (Cimolomys).
Upper Cretaceous (Lance); Wyoming: Paleocene (Fort Union); Montana.

Ptilodus mediævus Cope.

Hay, O. P. 1902 A, 559.
Cope, E. D. 1891 N, 65, fig. 35.
Gardner, J. H. 1910 A, 729.
Gidley, J. W. 1909 A, 612, 613.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41 (P. mediavus).
Trouessart, E. L. 1905 A, 870.
Woodward, A. S. 1898 B, 251, fig. 148.
Paleocene (Torrejon); New Mexico.

Ptilodus montanus Douglass.

Douglass, E. 1908 D, 14.
Gardner, J. H. 1910 A, 729.
Gidley, J. W. 1909 A, 615.
Lull, R. S. 1915 D, 326.
Matthew, W. D. 1914 B, 389.
Stanton, T. W. 1909 A, 264.
Paleocene (Fort Union); Montana.

Ptilodus plicatus (Cope).

Hay, O. P. 1902 A, 557 (Chirox).
Cope, E. D. 1891 N, 65, fig. 36 (Chirox).
Gardner, J. H. 1910 A, 729.
Gidley, J. W. 1909 A, 614.
Hennig, E. 1922 A, 214, 239.
Matthew, W. D. 1909 C, 91 (Chirox).
Trouessart, E. L. 1905 A, 867 (Chirox).
Paleocene (Torrejon); New Mexico.

Ptilodus primævus Lambe.

Lambe, L. M. 1902 A, 79, pl. xv, figs. 13, 14.
Ameghino, F. 1903 A, 182 (Boreodon).
Bowen, C. F. 1915 A, 144.
Brown, B. 1914 E, 379.
Hatcher, J. B. 1905 B, 100.
Hay, O. P. 1903 D, 119.
1910 B, 296.
Lambe, L. M. 1904 C, 25, 37, 50.
1907 B, 178.
1912 A, 10.
Lull, R. S. 1915 D, 324.
Matthew, W. D. 1916 A, 479, 484, 490 (To Cimolomys?).
Osborn, H. F. 1902 H, 676.
1902 I, 15, 21.
Trouessart, E. L. 1905 A, 867.
Upper Cretaceous (Belly River); Alberta.

Ptilodus serratus (Marsh).

Hay, O. P. 1902 A, 560 (Cimolomys).
Bowen, C. F. 1915 A, 144 (Halodon).
Gidley, J. W. 1909 A, 622 (This species?).
Huene, F. 1925 C, 180 (Halodon).
Lemoine, V. 1889 A, 240, fig. 1 (Halodon).
Lull, R. S. 1915 D, 324, 345 (Cimolomys); 326 (Ptilodus).
Osborn, H. F. 1891 E, 600, figs. 2, 4 (Halodon).
Stanton, T. W. 1909 A, 264 (This species?).
Upper Cretaceous (Lance); Wyoming: Paleocene (Fort Union); Montana.

Ptilodus trovessartianus Cope.

Hay, O. P. 1902 A, 559 (P. trouessartianus).
Ameghino, F. 1903 A, 147, figs. 69, 115 (P. trouessartianus).
1906 A, 360, fig. 202 (P. trouessartianus).
Gardner, J. H. 1910 A, 729 (P. trovessartianus).
Gidley, J. W. 1909 A, 614 (P. trouessartianus).
Matthew, W. D. 1909 C, 91 (P. trovessartianus).
1914 B, 384 (P. trovessartianus).
Reeside, J. B. 1924 A, 41 (P. trovessartianus).
Trouessart, E. L. 1905 A, 870 (P. trouessartianus).
Paleocene (Torrejon); New Mexico.

Ptilodus sp. indet.

Bowen, C. F. 1915 A, 144.
Brown, B. 1907 A, 842. Upper Cretaceous (Hell Creek); Montana.
Douglass, E. 1908 D, 13 (Chirox sp.). Paleocene (Fort Union); Montana.
Simpson, G. G. 1927 A, 1. Upper Cretaceous (Hell Creek); Montana.

ECTYPODUS Matthew and Granger. Type *E. musculus* Matthew and Granger.

Matthew and Granger 1921 A, 1.
Chardin, T. 1922 A, 15.
Simpson, G. G. 1928 C, 31.

Ectypodus musculus Matthew and Granger.

Matthew and Granger 1921 A, 1.
Reeside, J. B. 1924 A, 47.
Paleocene ("Tiffany"); Colorado.

CIMOLOMYS Marsh. Type *C. gracilis* Marsh.

Hay, O. P. 1902 A, 559.
Bigot, A. 1897 A, 462.
Chardin, T. 1922 A, 15.
Dollo, L. 1889 G, 676 (Nanomys).
Gaudry, A. 1901 B, 94.
Hennig, E. 1919 A, 6.
Huene, F. 1925 C, 181.
Koken, E. 1893 B, 426.
Matthew, W. D. 1916 A, 479, 481.
Palmer, T. S. 1904 A, 189, 788.
Trouessart, E. L. 1905 A, 871.
Winge, H. 1923 A, 48, 51 (Cimolomys, Nanomys).
Zittel and Schlosser 1911 A, 354.
1923 A, 426, fig. 529.
Upper Cretaceous (Lance); Wyoming.

Cimolomys bellus Marsh.

Bowen, C. F. 1915 A, 144.
Hay, O. P. 1902 A, 559.
Lull, R. S. 1915 D, 323, 345.
Upper Cretaceous (Lance); Wyoming.

Cimolomys digona Marsh.

Hay, O. P. 1902 A, 560.
Bowen, C. F. 1915 A, 146.
Hennig, E. 1922 A, 214.
Lull, R. S. 1915 D, 323, 345.
Upper Cretaceous (Lance); Wyoming.

Cimolomys gracilis Marsh.

Bowen, C. F. 1915 A, 144.
Hay, O. P. 1902 A, 560.
Hennig, E. 1922 A, 214 [Ptilodus (Cimolomys)].
Lemoine, V. 1889 A, 240, fig. 1.
Lull, R. S. 1915 D, 323, 345.
Merrill, G. P. 1907 A, 28.
Upper Cretaceous (Lance); Wyoming.

Cimolomys minutus (Marsh).

Hay, O. P. 1902 A, 560.
Bowen, C. F. 1915 A, 144 (Nanomys).
Lull, R. S. 1915 D, 323, 345.
Upper Cretaceous (Lance); Wyoming.

Cimolomys parvus (Marsh).

Hay, O. P. 1902 A, 560.
Bowen, C. F. 1915 A, 146 (Cimolodon).
Lull, R. S. 1915 D, 324, 345.
Upper Cretaceous (Lance); Wyoming.

CIMOLODON Marsh. Type *C. nitidus* Marsh.

Marsh, O. C. 1889 D, 84.
Hay, O. P. 1902 A, 559 (Cimolomys, in part).
Simpson, G. G. 1926 D, 239, figs. 6, 8.
1927 A, 4.
1927 B, 9.
1928 C, 31.

Cimolodon agilis Marsh.

Hay, O. P. 1902 A, 559 (Cimolomys).
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345 (Cimolomys).
Merrill, G. P. 1907 A, 28.
Upper Cretaceous (Lance); Wyoming.

Cimolodon nitidus Marsh.

Marsh, O. C. 1889 D, 84.
Hay, O. P. 1902 A, 560 (Cimolomys).
Bowen, C. F. 1915 A, 144.
Lemoine, V. 1889 A, 240, fig. 1.
Lull, R. S. 1915 D, 324, 345 (Cimolomys).
Osborn, H. F. 1891 E, 600, figs. 3, 4.
Zittel and Schlosser 1911 A, 353, fig. 505 (Cimolomys).
1923 A, 432, fig. 540 (Cimolomys).
Upper Cretaceous (Lance); Wyoming.

Cimolodon sp. indet.

Simpson, G. G. 1927 A, 5. Upper Cretaceous (Hell Creek); Montana.

ORACODON Marsh. Type *O. anceps* Marsh.

Hay, O. P. 1902 A, 561.
Dollo, L. 1889 G, 676.
Palmer, T. S. 1904 A, 478, 788.
Trouessart, E. L. 1905 A, 871.

Oracodon anceps Marsh.

Hay, O. P. 1902 A, 561.
Bowen, C. F. 1915 A, 146.
Huene, F. 1925 C, 179.
Lull, R. S. 1915 D, 324, 345.
Merrill, G. P. 1907 A, 50.
Trouessart, E. L. 1905 A, 871.
Upper Cretaceous (Lance); Wyoming.

Oracodon conulus Marsh.

Hay, O. P. 1902 A, 562.
Bowen, C. F. 1915 A, 146.
Huene, F. 1925 C, 179.
Lull, R. S. 1915 D, 324, 345.
Merrill, G. P. 1907 A, 50.
Trouessart, E. L. 1905 A, 871.
Upper Cretaceous (Lance); Wyoming.

CAMPTOMUS Marsh. Type *C. amplus* Marsh.

Hay, O. P. 1902 A, 562.
Dollo, L. 1889 G, 676.
Palmer, T. S. 1904 A, 157, 788.
Simpson, G. G. 1928 I, 11, 12 (A reptile).

Camptomus amplus Marsh.

Hay, O. P. 1902 A, 562.
Ameghino, F. 1893 C, 80.
Bowen, C. F. 1915 A, 144.
Broom, R. 1914 B, 125.
Lemoine, V. 1889 A, 240, fig. 1.
Lull, R. S. 1915 D, 324, 345.
Upper Cretaceous (Lance); Wyoming.

ESSONODON Simpson. Type *E. browni* Simpson.

Simpson, G. G. 1927 A, 2.

Essonodon browni Simpson.

Simpson, G. G. 1927 A, 2.
Upper Cretaceous (Hell Creek); Montana.

MENISCOËSSUS Cope. Type *M. conquistus* Cope.

Hay, O. P. 1902 A, 560.
Abel, O. 1912 F, 544.
Ameghino, F. 1903 A, 109, 145, figs. 66, 67.
1904 B, 43.
1906 A, 359, fig. 199.
Beddard, F. E. 1902 A, 101.
Bigot, A. 1897 A, 462 (Selenacodon, Dipriodon).
Brown, B. 1907 A, 840.
Dollo, L. 1889 G, 674.
Gaudry, A. 1901 B, 94.
Gregory, W. K. 1922 A, 63.
Heilprin, A. 1887 A, 203, 335.
Hennig, E. 1919 A, 6.
1922 A, 203, 216, 230, 234, fig. 1 (Meniscoëssus); 224, fig. 4 (Tripriodon); 220 (Dipriodon).
Lemoine, V. 1889 A, 240 (Halodon).
Matthew, W. D. 1915 A, 264, 269.
1916 A, 479.
Matthew and Granger 1925 A, 6.
Osborn, H. F. 1907 G, 102, 106, figs. 49, 55.
Palmer, T. S. 1904 A, 308, 788 (Halodon); 239, 788 (Dipriodon); 409, 788 (Meniscoëssus); 627, 788 (Selenacodon); 693, 788 (Tripriodon).
Petronievics, B. 1918 A, 67 (Stereognathus).
Russell, L. S. 1926 A, 232.
Schlosser, M. 1898 B, 362.
Simpson, G. G. 1927 B, 9.
1927 F, 121.
Stromer, E. 1924 A, 252, fig. 4.
Tims, H. W. M. 1901 A, 282.
1903 A, 142.
1905 B, 1787.
Trouessart, E. L. 1905 A, 870.
Weber, M. 1904 A, 357, 358, 361, fig. 274.
Weber and Abel 1928 A, 84, fig. 47.
Winge, H. 1923 A, 48, 51 (Meniscoëssus, Selenacodon).
Woodward, A. S. 1911 B, 279 (Meniscoëssus, Selenacodon, Dipriodon).
Zittel and Schlosser 1911 A, 354.
1923 A, 432, 664.

Meniscoëssus borealis Simpson.

Simpson, G. G. 1927 A, 3; fig. 2.
Upper Cretaceous (Hell Creek); Montana.

Meniscoëssus brevis (Marsh).

Hay, O. P. 1902 A, 560.
Bowen, C. F. 1915 A, 146 (Selenacodon).
Hennig, E. 1922 A, 214 (Selenacodon).
Lull, R. S. 1915 D, 324, 345.
Upper Cretaceous (Lance); Wyoming.

Meniscoëssus caperatus (Marsh).

Hay, O. P. 1902 A, 561.
Bowen, C. F. 1915 A, 144 (Tripriodon).
Hennig, E. 1922 A, 214 (Tripriodon).
Koken, E. 1893 B, 425 (Tripriodon).
Lull, R. S. 1915 D, 324, 345.
Upper Cretaceous (Lance); Wyoming.

Meniscoëssus cœlatus (Marsh).

Hay, O. P. 1902 A, 561.
Bowen, C. F. 1915 A, 144 (Tripriodon).
Hennig, E. 1921 A, 214 (Tripriodon).
1922 A, 214 (Tripriodon).
Lemoine, V. 1889 A, 240, fig. 1 (Tripriodon).
Lull, R. S. 1915 D, 324, 345.
Merrill, G. P. 1907 A, 62 (Tripriodon).
Zittel and Schlosser 1911 A, 354, fig. 506 (Tripriodon).
Upper Cretaceous (Lance); Wyoming.

Meniscoëssus conquistus Cope.

Hay, O. P. 1902 A, 561.
Ameghino, F. 1903 A, 108, fig. 26 (This species?).
1906 A, 359, fig. 200.
Bowen, C. F. 1915 A, 144.
Brown, B. 1907 A, 842.
1914 E, 358.
Dollo, L. 1889 G, 674.
Hennig, E. 1922 A, 214.
1924 A, 124.
Lull, R. S. 1915 D, 324.
Matthew, W. D. 1916 A, 477.
Simpson, G. G. 1927 A, 1.
Trouessart, E. L. 1905 A, 870.
Zittel and Schlosser 1911 A, 354, fig. 506.
1923 A, 432, fig. 541.
Upper Cretaceous (Hell Creek); Montana: (Lance); Wyoming.

Meniscoëssus fragilis (Marsh).

Hay, O. P. 1902 A, 561.
Bowen, C. F. 1915 A, 146 (Selenacodon).
Hennig, E. 1922 A, 214 (Selenacodon).
Lull, R. S. 1915 D, 324, 345.
Upper Cretaceous (Lance); Wyoming.

Meniscoëssus sculptus (Marsh).

Hay, O. P. 1902 A, 561.
Ameghino, F. 1893 C, 80 (Halodon).
Bowen, C. F. 1915 A, 144 (Halodon).
Huene, F. 1925 C, 180 (Halodon).
Lemoine, V. 1889 A, 240, fig. 1.
Lull, R. S. 1915 D, 324, 345.
Osborn, H. F. 1891 E, 600, fig. 2 (Halodon).
Upper Cretaceous (Lance); Wyoming.

Meniscoëssus sp. indet.

Brown, B. 1907 A, 842. Upper Cretaceous (Hell Creek); Montana.
Simpson, G. G. 1927 A, 1.
Upper Cretaceous (Hell Creek); Montana.

POLYMASTODONTIDÆ Cope.

Cope, E. D. 1884 Y, 687.
Hay, O. P. 1902 A, 562 (Polymastodontinæ).
Abel, O. 1913 B, 708.
1914 A, 39 ("polymastodontiden").
1919 A, 715.
Ameghino, F. 1903 A, 106, 107, 158 (Polymastodontinæ).
Arldt, T. 1907 D, 675.
1912 A, 706.
Beddard, F. E. 1902 A, 98.
Branca, W. 1915 W, 18.
Case, E. C. 1898 C, 823.
Gregory, W. K. 1922 A, 63.
Hennig, E. 1919 A, 6.
1922 A, 260.
Lydekker, R. 1896 C, 283.
Matthew and Granger 1925 A, 6 (Catopsalinæ).
Schlosser, M. 1898 B, 361 (Polymastodontinæ).
1900 B, 299 (Polymastodontinæ).
Simpson, G. G. 1926 D, 246.
1928 C, 31.
Tims, H. W. M. 1901 A, 282 (Polymastodontidæ, Polymastodontinæ).
1903 A, 142 (Polymastodontidæ).
1905 B, 1787.
Trouessart, E. L. 1905 A, 865, 875.
Weber, M. 1904 A, 361.
Winge, H. 1923 A, 91.
Zittel and Schlosser 1911 A, 354.
1923 A, 432, 442.

POLYMASTODON Cope. Type *T. taöensis* Cope.

Hay, O. P. 1902 A, 562.
Abel, O. 1913 B, 708.
1922 E, 372.
1923 A, 216.
Ameghino, F. 1889 A, 911, 923, 963.
1903 A, 106.
1904 A, 8.
1904 B, 44.
1905 C, 411.
1906 A, 152, 361.
Broom, R. 1914 B, 117, 126.
1914 D, 140.
Brown, B. 1907 A, 840.
Carter, J. T. 1922 A, 605, pl. vii, figs. 2-5.
Cockerell, Miller and Prinz 1914 A, 349.
Cope, E. D. 1885 BB, 78.
Dall, W. H. 1898 A, 347.
Gardner, J. H. 1910 A, 712.
Gaudry, A. 1901 B, 94.
1906 B, 106.
Gregory, W. K. 1910 A, 169, 170, 212.
1920 A, 138, fig. 59.
Haug, E. 1911 A, 1527.
Hay, O. P. 1910 B, 293.
Heilprin, A. 1887 A, 336.
Hennig, E. 1919 A, 6.
1922 A, 203, 254, 262.
Koken, E. 1893 B, 371.
Lydekker, R. 1896 C, 284.
1915 C, 624.
Matthew, W. D. 1906 B, 357.
1909 C, 100.
1915 A, 264, 269.
1916 A, 479.
1924 E, 749.
Matthew and Granger 1925 A, 6 (Tæniolabis; Polymastodon, a syn.).
Osborn, H. F. 1907 G, 103, fig. 51.
1909 D, 23.
1910 B, 106, 108, 518.
Palmer, T. S. 1904 A, 556, 788.
Perrier, E. 1920 A, 341.
Rogers, A. F. 1924 A, 545.
Russell, L. S. 1926 A, 232.
Schlosser, M. 1898 B, 362.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 286, 627.
Simpson, G. G. 1925 C, 3, 9-11.
1926 D, 228, 240.
1928 C, 31, 164, 213.
Sinclair and Granger 1914 A, 306.
Steinmann, G. 1909 A, 82.
Stromer, E. 1924 A, 252.
Terra, P. 1911 A, 247, fig. 81.
Tims, H. W. M. 1903 A, 144.
Trouessart, E. L. 1905 A, 865.
Weber, M. 1904 A, 361.
Weber and Abel 1928 A, xxiv, 44, 84, 88.
Woodward, H. 1904 B, 153.
Zittel and Schlosser 1911 A, 354.
1923 A, 433, 665.

This genus is probably identical with *Tæniolabis*.

Polymastodon attenuatus (Cope).

Hay, O. P. 1902 A, 562.
Ameghino, F. 1903 A, 108, fig. 25.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Osborn, H. F. 1904 F, 7.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 362, 363.
Tims, H. W. M. 1903 A, 142.
Trouessart, E. L. 1905 A, 865.
Zittel and Schlosser 1911 A, 354, fig. 507.
1923 A, 432, fig. 543.
Paleocene (Puerco); New Mexico.

Polymastodon fissidens (Cope).

Hay, O. P. 1902 A, 563.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Russell, L. S. 1926 A, 232.
Schlosser, M. 1908 A, 362.
Trouessart, E. L. 1905 A, 865.
Paleocene (Torrejon?); New Mexico.

Polymastodon latimolis (Cope).

Hay, O. P. 1902 A, 563.
Schlosser, M. 1898 B, 362.
Paleocene (Puerco); New Mexico.

Polymastodon selenodus Osborn and Earle.

Hay, O. P. 1902 A, 563.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
Schlosser, M. 1898 B, 362.
Trouessart, E. L. 1905 A, 865.
Paleocene (Puerco); New Mexico.

Polymastodon taöensis (Cope).

Hay, O. P. 1902 A, 563.
Abel, O. 1913 B, 708, fig. 3 (P. taoense).
1914 A, 39, fig. 13 (P. taoense).
1920 A, 417 (P. taoense).
Ameghino, F. 1903 A, 106, figs. 24, 29, 31.
1905 C, 411.
1906 A, 361, fig. 205.
Broom, R. 1914 B, 126, pls. xi, xii, figs. 6, 8
Gardner, J. H. 1910 A, 729.
Gregory, W. K. 1910 A, 170, fig. 8.
Hennig, E. 1922 A, 214, pl. v, fig. 1 (P. taoensis).
Lydekker, R. 1915 C, 624, figs. 3, 4.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Osborn, H. F. 1904 F, 7.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 362, 363.
Scott, W. B. 1913 A, 286, fig. 144.
Seeley, H. G. 1886 A, 413 (Catopsalis pollux); 414 (P. taöensis).
Simpson, G. G. 1926 D, 228, fig. 2.
Stromer, E. 1924 A, 252, fig. 5.
Tims, H. W. M. 1901 A, 282.
1903 A, 142 (P. tabensis).
1905 B, 1787 (P. tabensis).
Trouessart, E. L. 1905 A, 865.
Weber and Abel 1928 A, 87, fig. 52.
Paleocene (Puerco); New Mexico.

DIPRIODON Marsh. Type *D. robustus* Marsh.

Marsh, O. C. 1889 D, 85.
Hay, O. P. 1902 A, 560 (Meniscoëssus).
Simpson, G. G. 1927 C, 4.

Dipriodon lunatus Marsh.

Hay, O. P. 1902 A, 561 (Meniscoëssus).
Bowen, C. F. 1915 A, 144.
Hennig, E. 1922 A, 220, 222, fig. 2.
Lull, R. S. 1915 D, 324, 345 (Meniscoëssus).
Upper Cretaceous (Lance); Wyoming.

Dipriodon robustus Marsh.

Hay, O. P. 1902 A, 561 (Meniscoëssus).
Bowen, C. F. 1915 A, 144.
Hennig, E. 1922 A, 220, 254.
Lull, R. S. 1915 D, 324, 345 (Meniscoëssus).
Simpson, G. G. 1926 D, 240.
Upper Cretaceous (Lance); Wyoming.

CATOPSALIS Cope. Type *C. foliatus* Cope.

Hay, O. P. 1902 A, 562.
Matthew, W. D. 1909 C, 100.
Matthew and Granger 1925 A, 6 (Syn. of Tæniolabis).
Matthew, Granger, Simpson 1928 A, 4.
Palmer, T. S. 1904 A, 164, 788.
Reagan, A. B. 1903 A, 82 (Calopsalis).
Seeley, H. G. 1886 A, 413.
Simpson, G. G. 1927 B, 9.
Trouessart, E. L. 1905 A, 865.

Catopsalis calgariensis Russell.

Russell, L. S. 1926 A, 230, fig. 1.
Simpson, G. G. 1927 B, 2, 9, fig. 1.
Upper Cretaceous (Paskapoo); Alberta.

Catopsalis foliatus Cope.

Hay, O. P. 1902 A, 562.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 38.
Russell, L. S. 1926 A, 232.
Schlosser, M. 1898 B, 362 (Polymastodon filiatus).
Tims, H. W. M. 1901 A, 284.
Paleocene (Puerco); New Mexico.

TÆNIOLABIS Cope. Type *T. sulcatus* Cope.

Hay, O. P. 1902 A, 562.
Matthew, W. D. 1928 B, 949, 954, fig. 4 (To include Polymastodon).
Matthew and Granger 1925 A, 6.
Matthew, Granger, Simpson 1928 A, 1.
Palmer, T. S. 1904 A, 659, 788.
Seeley, H. G. 1886 A, 415.
Simpson and Elftman 1928 A, 17.
Zittel and Schlosser 1923 A, 432, 442 (Syn. of Polymastodon).

Tæniolabis sulcatus Cope.

Hay, O. P. 1902 A, 562.
Paleocene (Puerco); New Mexico.

GENERA OF UNCERTAIN RELATIONSHIPS.

Picrodus Douglass. Type *P. silberlingi* Douglass.

Douglass, E. 1908 D, 17.

Picrodus silberlingi Douglass.

Douglass, E. 1908 D, 17, pl. i, figs. 9, 10.
Lull, R. S. 1915 D, 326.
Matthew, W. D. 1914 B, 390.
Paleocene (Fort Union); Montana.

Paronychodon Cope. Type *P. lacustris* Cope.

Hay, O. P. 1902 A, 490.
Matthew, W. D. 1916 A, 481.
Palmer, T. S. 1904 A, 516, 788.

Paronychodon lacustris Cope.

Hay, O. P. 1902 A, 490.
Bowen, C. F. 1915 A, 130, 151.
Hatcher, J. B. 1905 B, 84.
Matthew, W. D. 1916 A, 477.
Osborn, H. F. 1902 I, 12.
Peale, A. C. 1912 A, 754.
Upper Cretaceous (Judith River); Montana.

Boreodon Lambe. Type *B. matutinus* Lambe.

Lambe, L. M. 1902 A, 79.
1904 C, 25.
Matthew, W. D. 1916 A, 481.
Palmer, T. S. 1904 A, 139, 788.
Trouessart, E. L. 1905 A, 867.

Boreodon matutinus Lambe.

Lambe, L. M. 1902 A, 79, pl. xv, fig. 15.
Ameghino, F. 1903 A, 182.
Bowen, C. F. 1915 A, 144.
Brown, B. 1914 E, 379.
Hatcher, J. B. 1905 B, 100, fig. 1.
Hay, O. P. 1910 B, 296.
Lambe, L. M. 1904 C, 25, 37, 52.
1912 A, 10.
Lull, R. S. 1915 D, 324.
Matthew, W. D. 1916 A, 479, 484, 490.
Osborn, H. F. 1902 I, 15.
Stanton and Hatcher 1905 A, 50 ("mammal").
Upper Cretaceous (Belly River); Alberta.

Infraclass Eutheria Gill.

Citations are here made to the Eutheria of Gill, regarded by him as a subclass and as embracing the Didelphia and the Monodelphia.

Hay, O. P. 1902 A, 563.
Ameghino, F. 1909 A, 4.
Bardenfleth, K. S. 1913 A, 84.
Beddard, F. E. 1902 A, 116.
Bensley, B. A. 1901 B, 130.
Bolk, L. 1922 B, 55.
Broom, R. 1901 A, 188.
1908 A, 1055.
1910 B, 764 ("eutherians").
1912 B, 421.
1914 B, 132.
Case, E. C. 1898 C, 821 (Metatheria); 825 (Eutheria).
Cope, E. D. 1891 N, 65.
Dawkins, W. B. 1915 A, 520.
Duckworth, W. L. H. 1904 A, 21 (Theria).
Fürbringer, M. 1904 A, 575.
Gadow, H. 1912 A, 818.
Gregory, W. K. 1910 A, 92, 225, 228, 231 (Eutheria); 464 (Theria).
1916 A, 242 ("eutherian").
Lydekker, R. 1902 B, 374.
Matthew, W. D. 1904 D, 811 ("eutherian," Metatheria, "mammals").
1928 B, 949.
Miller, G. S. 1912 B, 2.
Osborn, H. F. 1899 J, 415.
1907 G, 11, 100.
1907 H, 613.
Parker and Haswell 1897 A, 448 (Theria).
Schlosser, M. 1905 A, 324.
Schuchert, C. 1915 A, 928.
Scott, W. B. 1913 A, 57.
Shufeldt, R. 1911 A, 72.
Smith, G. E. 1913 A, 560 ("eutherian").
Stromer, E. 1912 A, 162, 242.
Weber, M. 1904 A, 303.
Weber and Abel 1928 A, 3, 4, 5 (Theria).

Subclass Didelphia Blainville.

Hay, O. P. 1902 A, 563.
Bolk, L. 1916 A, 718 ("didelphians").
1922 B, 55 (Metatheria).
Broom, R. 1897 B, 252 (Metatheria).
Carus, V. 1875 A, 179.
Cope, E. D. 1891 N, 66.
Doran, A. H. G. 1878 A, 477.
Gadow, H. 1912 A, 818 (Metatheria).
Gregory, W. K. 1910 A, 225 (Metatheria).
1920 A, 235.
Haeckel, E. 1868 A, 464.
Haeckel, E. 1873 A, 512, 543, 549 (Marsupialia).
1893 A, xx (Didelphida).
Hennig, E. 1922 A, 260.
Hill, J. P. 1897 A, 436 (Metatheria).
Hogben, L. T. 1919 A, 71 (Metatheria).
Hubrecht, A. A. W. 1908 A, 157.
Huxley, T. H. 1863 E, 527.
1870 F, 538.
1880 D, 452.
1880 E, 464 (Metatheria).
Jaekel, O. 1911 A, 206 (Didelphii).

Loomis, F. B. 1921 A, 189 ("didelphids").
Osborn, H. F. 1907 G, 100.
1907 H, 613.
Parker, W. K. 1886 A, 272 (Metatheria).
Parker and Haswell 1897 A, 449, 489 (Metatheria).
Reynolds, S. H. 1897 A, 349, 351.
Scott, W. B. 1913 A, 57, 59, 626.
Smith, G. E. 1911 A, 293 (Metatheria).
Stromer, E. 1908 B, 169.
Terra, P. 1911 A, 248.
Thomas, O. 1888 A, 453 (Metatheria).
Tims, H. W. M. 1911 A, 294 (Metatheria).
Tomes, C. S. 1900 A, 35 ("implacentals").
Weber, M. 1904 A, 361 (Didelphia); 302, 331 (Metatheria).
Wortman, J. L. 1902 A, xiv, 143 (Metatheria).

Order MARSUPIALIA Illiger.

Illiger, C. 1811 A, 75.
Hay, O. P. 1902 A, 563.
Abel, O. 1901 B, 313 ("beutelthiere").
1904 A, 183 ("marsupialier").
1906 A, 56 ("marsupialier").
1907 E, (249) ("marsupialier").
1910 B, (186).
1912 F, 172, 359, 541.
1913 B, 701.
1914 A, 34 ("beuteltiere"); 48 (Pantotheria).
1919 A, 710.
1920 A, 416.
1921 A, 185 ("marsupialier").
1922 E, 373.
1926 E, (137) ("marsupialier").
Adloff, P. 1903 A, 367 ("beutelthiere").
1906 A, 114 ("marsupialier").
1907 A, 530 ("marsupialier").
1910 B, 232 ("marsupialier").
1913 C, 8 ("marsupialier").
1918 A, 129 ("beutler").
Ärnbäck-Christie-Linde, A. 1912 A, 621.
Agassiz, L. 1836 B, 24 ("marsupiaux").
1844 D, 137.
Ahrens, H. 1912 B, 49 ("marsupialier").
Allis, E. P. 1919 D, 219.
Altmann, F. 1925 A, 106 ("beutler").
Ameghino, F. 1905 C, 351.
Anderson, C. 1925 A, 16, 25 ("marsupials").
Anthony, R. 1910 A, 783 ("marsupiaux").
1912 A, ("marsupiaux").
1913 A, 256 ("marsupiaux").
Arldt, T. 1907 A, 244.
1907 B, 456 ("marsupialier").
1907 D, 664.
1907 E, 207 (Pantotheria).
1911 A, 229 ("beuteltiere").
1912 A, 669, 679.
Bardeleben, K. 1885 B, 85 ("beutelthiere").
1889 A, 107 ("beuteltiere").
1889 B, 259 ("marsupials").
1904 A, 111 ("beuteltiere").
1906 A, 140 ("beuteltiere").
Bateson, W. 1892 A, 105 ("marsupials").
Bayer, F. 1897 A, 147.
Beddard, F. E. 1902 A, 122.
Beer, G. R. 1926 A, 326, 330.
Bender, O. 1907 A, 42 ("marsupialier").
Bensley, B. A. 1901 A, 431.
1901 B, 117.
1901 C, 245.
1903 A, 83.
1906 A, 1.
Bertelli, D. 1909 A, 157 (Marsupiali).
Beyer, H. 1908 A, 71, 81, 86, 99 ("beuteltiere")
Black, N. 1900 A, 8 ("marsupials").
Blatschkie, F. 1904 A, 151.
Bluntschli, H. 1912 B, 362 ("marsupialier").
Boas, J. E. V. 1914 B, 577 ("beuteltiere").
1918 A, 1-24.
1922 B, 55 ("marsupials").
Bolk, L. 1916 A, 715.
1921 B, 170.
Bonaparte, C. L. 1832 A, 288.
1833 A, 1042 ("beutelthiere").
1840 A, 11.
Bonsdorff, E. J. 1871 A, 318.
Boule, M. 1902 B, 910 ("marsupiaux").
Branca, W. 1915 A, 45 ("marsupialier").
Brandt, J. F. 1865 A, 27.
Brauer, A. 1914 A.
Braus, H. 1906 A, 304 ("marsupialier").
Broom, R. 1897 B, 252.
1897 D, 513 ("marsupials").
1898 A, 714 ("marsupials").
1901 A, 188.
1901 B, 735 ("marsupials").
1902 B, 168 ("marsupials").
1902 C, 449 ("marsupials").
1902 D, 549 ("marsupials").
1903 I, 546 ("marsupials").
1904 B, 89 ("marsupials").
1908 A, 1055 ("marsupials").
1909 D, 195 ("marsupials").
1910 B, 764.
1911 A, 921 ("marsupials").
1914 B, 132.
1914 F, 296 ("marsupials").
1926 A, 259.
Carlsson, A. 1922 A, 234.
Carter, J. T. 1922 A, 600, 603 ("marsupials").
Carus, V. 1875 A, 179.
Carus and Engelmann 1861 A, 1290.
Chandler, A. C. 1914 B, 139 ("marsupials").
Clark and Sonntag 1926 A.
Cleland, J. 1863 B, 302 (Marsupiata).
Cockerell, Miller and Prinz 1914 A, 350.
Cope, E. D. 1875 Y, 445.
1885 BB, 71.
1885 EE, 606.
1891 N, 67, 69, 89.
Cuvier, F. 1825 A, 125 ("marsupiaux").
Dana, J. D. 1863 B, 315 ("marsupials").
Dependorf, T. 1898 A, 245.
1907 A, 540 ("marsupialier").
1907 C, 99 ("beutler").
Diener, C. 1909 A, 55 ("beuteltiere").
Dollo, L. 1889 E, 186 ("marsupiaux").
1899 A, 188 ("marsupiaux").
1900 A, 275 ("marsupiaux").
1907 A, 166 ("marsupiaux").

Doran, A. H. G. 1878 A, 371.
Duckworth, W. L. H. 1904 A, 22.
Duméril, A. M. C. 1806 A, 338 (Marsupiati).
Eggeling, H. 1904 A, 84 ("marsupialier").
Eimer, G. H. T. 1901 A, 256 ("beuteltiere").
Eisler, P. 1895 A, 55 ("marsupialien").
Elliot, D. G. 1901 A, 1.
Emery, C. 1901 A, 671 ("marsupialier").
Flower, W. H. 1868 C, 631.
Frassetto, F. 1915 A.
Freund, P. 1892 A, 527.
Frey, H. 1911 A, 395.
Fuchs, H. 1906 A, 12 ("marsupialier").
  1907 A, 154 ("marsupialier").
  1911 A, 52 ("marsupialier").
  1914 A, 37 ("marsupialier").
  1922 A, 283.
Fürbringer, M. 1904 A.
Gadow, H. 1896 A, 48.
  1912 A, 818 ("marsupials").
  1913 A, 115 ("marsupials").
Gaupp, E. 1905 D, 1037 ("marsupialier").
  1910 D, 92 ("marsupialier").
  1911 A, 417 ("marsupialier").
  1911 B, 99 ("marsupialier").
  1911 D, 621 ("marsupialier").
  1912 B, 219 ("marsupialier").
  1913 A, 63 ("marsupialier").
Gegenbaur, C. 1864 C, 177 ("marsupialien").
Gervais, P. 1852 A, 131 ("marsupiaux").
  1859 A, 257.
Gidley, J. W. 1915 A, 400 ("marsupials").
  1919 A, 273 ("marsupials").
Giebel, C. G. 1855 A, 38.
  1878 C, 854 ("beutelthiere").
  1883 A ("beutler").
Gill, T. 1881 A, 383 (Pantotheria).
Gottlieb, H. 1914 A, 185.
Gregory, W. K. 1910 A, 38, 45, 69, 78, 197, 225, 437, 443, 453, 454, 464.
  1910 C, 298.
  1912 C, 188 (Marsupialia); 191 (Pantotheria).
  1916 A, 248 ("marsupials"); 244, pl. i, E. (Pantotheria).
  1920 A, 137, 235.
  1922 A, 540.
  1926 B, 411 (Pantotheria).
  1927 D, 231 ("marsupials").
Haacke, W. 1886 A, 367 ("marsupialien").
Haeckel, E. 1868 A, 441.
  1873 A, 588.
  1893 A, xix.
Hanson, F. B. 1919 B, 78.
  1920 B, 329 ("marsupials").
Hasse and Schwarck 1870 A, 148.
Hayek, H. 1926 A, 177 ("beuteltiere").
Heilprin, A. 1887 A, 334.
Hennig, E. 1922 A, 258 ("marsupialier").
Hertz, M. 1925 A ("marsupialier").
Hill, J. P. 1897 A, 385.
Hilzheimer, M. 1913 A, 517 ("beuteltiere").
Hoernes, R. 1886 A, 653.
Hogben, L. T. 1919 A, 71, 75 ("marsupials").
Hommes, J. H. 1924 A, 26 ("marsupials").
Hopewell-Smith and Tims 1911 A, 941 ("marsupials").
Howes, G. B. 1891 A, 154.
  1902 A, 524.
Howes and Harrison 1893 A, 790.
Hubrecht, A. A. W. 1897 A, 27 ("marsupials").
  1908 A.
Huxley, T. H. 1856 B, 194 ("marsupials").
  1859 D, 435.
  1863 E, 528.
  1863 F, 580.
  1868 C, 314, 316.
  1869 G, 436.
  1869 H, 389 ("marsupials").
  1870 F, 528, 538.
  1879 A, 404.
  1880 E, 463.
  1880 F, 163.
Jacobi, A. 1921 A, 215.
Johnson, A. 1883 A, 405 ("marsupials").
Kampfen, P. N. 1905 A.
  1922 A, 54.
Kaudern, W. 1910 A, 562 ("marsupial").
Kesteven, H. L. 1918 A, 465 ("marsupials").
Kingsley, J. S. 1925 A, 205, 294.
Klaauw, C. J. 1924 A, 240.
Klein, E. E. 1868 A ("marsupialier").
Köstlin, O. 1844 A ("beutler").
Koken, E. 1893 B, 479 ("beutelthiere").
  1901 B, 224 ("beutelthiere").
Kükenthal, W. 1913 A, 676.
Laloy, L. 1907 A, 585 ("marsupiaux").
Lavocat, A. 1885 A, 45 ("marsupiaux").
  1896 A, 21 ("marsupiaux").
Leboucq, H. 1884 A, 74 ("marsupiaux").
Leche, W. 1887 A.
  1900 A, 999, 1003.
  1905 A, 578 ("marsupialier").
  1907 A, 50 ("beutelthiere").
Le Damany, P. 1903 B, 275 ("marsupiaux").
  1903 G, 322 ("marsupiaux").
  1906 B, 163 ("marsupiaux").
Leunis and Ludwig 1883 A, 289.
Longman, H. A. 1924 A, 1-15.
Lubosch, W. 1907 A, 618 ("marsupialier").
  1911 A, 329 ("marsupialier").
Lubsen, J. 1905 A, 449 ("marsupialier").
Lull, R. S. 1906 B, 554.
  1910 D, 153 ("marsupials").
  1917 B, 295, 322, 338.
Lydekker, R. 1893 F, 174.
  1896 C.
  1899 B, 922 ("marsupials").
  1902 B, 373 ("marsupials").
  1903 D, 101 ("marsupials").
  1907 D, 498 ("marsupials").
Major, C. J. F. 1899 B, 61.
Mantell, G. A. 1844 A, 848.
Martins, C. 1857 A ("marsupiaux").
  1872 A, 308 ("marsupiaux").
Matthew, W. D. 1904 D, 811 ("marsupials")
  1905 B, 69 ("marsupials").
  1905 D, 54.
  1907 B, 532, 534.
  1909 C, 103, 105, 110.
  1909 D, 335, 338 ("marsupials").
  1910 G, 156, 157.
  1914 D, 491 ("marsupials").
  1915 A, 187, 262, fig. 31.

Matthew, W. D. 1915 K, 475 ("marsupials").
1916 A, 479 ("marsupials").
1921 D, 211, 212.
1928 B, 948, 953, 954, 961, 978.
Mayer, A. F. 1842 A, 164 ("beutelthiere").
Mead, C. S. 1906 A, 480.
Meckel, J. F. 1825 A ("beutelthiere").
Meunier, S. 1903 A, 776 ("marsupiaux").
Miller, G. S. 1912 B, 2.
Mitchell, P. C. 1905 A, 445.
Mivart, St. G. 1888 A, 377 ("marsupials").
Mysberg, W. A. 1917 A, 647.
Nauck, E. T. 1923 A, 8 ("marsupialier").
Oehngren, S. 1919 A, 173.
Oken, L. 1823 A, 300 ("beutelthiere").
Osborn, H. F. 1898 U, 686.
1899 J, 415.
1901 F, 330.
1902 E, 356, fig. 1.
1905 N, 240 ("marsupials").
1907 G, 11, 94, 108.
1909 D, 129.
1917 B, 237.
1925 B, 18.
Owen, R. 1841 G, 315.
1841 H, 379.
1842 F, 87.
1857 E.
1858 A, 21.
1879 C, 573.
Palacký, J. 1902 B, 141 ("marsupialien").
1903 A, 1 ("marsupialien").
Pander and Alton 1828 A, 1 ("beutelthiere").
Parker, W. K. 1886 A, 268, 270 ("marsupials").
1888 C, 397 ("marsupials").
Parsons, F. G. 1903 A, 317.
Perna, G. 1906 A, 123.
Peters, W. 1867 A, 725 ("beutelthiere").
1867 C, 953 ("marsupials").
1868 B, 389.
Pictet, F. J. 1853 A, 388 ("didelphes").
Rabl, C. 1903 A, 175 ("marsupialier").
Rehs, J. 1914 A, 2, 32.
Retzius, A. 1849 A, 674.
Reynolds, S. H. 1897 A, 489, 546.
Röse, C. 1892 G, 143 ("beutelthiere").
Romer, A. S. 1922 A, 41, fig. 1 ("marsupials").
Rutland, J. 1901 A, 21033 ("marsupials").
Sabatier, A. 1897 B, 933 ("marsupiaux").
Schlosser, M. 1898 D, 124 ("beutler").
1899 K, 355.
1902 I, 737 ("marsupialier").
1903 G, 145.
1905 A, 325 ("marsupialier").
1911 A, 165 ("marsupialier").
Schmidt, O. 1886 A, 93 ("marsupials").
Schwalbe, G. 1904 A, 206.
Schwarz, E. 1924 A, 419.
Sclater, P. L. 1875 A, 209.
Scott, W. B. 1896 C, 308 ("marsupials").
1913 A, 57, 626, 684.
1917 A, 178 ("marsupials").
1928 B, 257.
Seeley, H. G. 1886 A, 413.
Serres, M. 1852 A, 145 ("marsupiaux").
Seydel, O. 1899 A, 516 ("marsupialier").
Shore, T. W. 1887 A, 365 ("marsupials").
Simpson, G. G. 1927 F, 122, 123.
1928 C, 147, 183.
Sinclair, W. J. 1905 C, 73 ("marsupials").
1906 B, 471.
Sixta, V. 1899 A, 329 ("marsupialier").
1900 A, 214 ("marsupialier").
1900 B, 326, 359.
1901 A, 323 ("marsupialier").
Smith, G. E. 1912 A, 425 ("marsupials").
Steinmann, G. 1907 A, 464.
1912 B, 717 ("beuteltiere").
Strecker, C. 1887 A, 318 ("beutelthiere").
Stromer, E. 1902 B, 556, 561 ("marsupialier").
1912 A, 162, 242.
1916 A, 403.
Taschenberg, O. 1899 A, 4425.
Thilenius, G. 1897 A, 484 ("marsupialier").
Thomas, O. 1887 A, 310.
1888 C, 1-401.
Tims, H. W. M. 1902 A, 321.
1905 B, 1785.
1911 A, 294 ("marsupials").
Todd, T. W. 1922 A, 268.
Tomes, C. S. 1900 A, 42 ("marsupials").
1906 A, 45 ("marsupials").
Tornier, G. 1888 A, 310 ("beuteltiere").
1891 A, 185 ("beuteltiere").
Trouessart, E. L. 1905 A, 826.
Van den Broeck, A. J. P. 1912 A, 782.
Van den Broeck, E. 1900 A, 66 ("marsupiaux").
Vogt, C. 1879 A, 245 ("marsupiaux").
Wagner, R. 1843 A, 12.
Wallace, A. R. 1876 A, i, 498; ii, 248, 253.
1894 A, 436.
Walmsley, T. 1918 A, 327 ("marsupials").
Waterhouse, G. R. 1846 A, 1-549 (Marsupiata).
Watson, D. M. S. 1916 A, 354 ("marsupials").
Weber, M. 1904 A, 331.
Weber and Abel 1928 A, 4, 45, 889.
Weber and Burlet 1927 A.
White, C. A. 1885 A, 61 ("marsupials").
Wiedersheim, R. 1892 A, 57 ("beutler").
Winge, H. 1906 A, 53.
1923 A, 56, 93.
Wood, H. E. 1924 A, 77.
Woodward, A. S. 1916 A, lxxii ("marsupials").
1923 A, 32.
Woodward, H. 1904 B, 154.
Wortman, J. L. 1901 B, xi, 335.
1902 A, xiii, 45; xiv, 21.
1920 A, 13 ("marsupials").
Wright, R. R. 1883 A, 20.
Zaaijer, T. 1894 A, 339.
Zittel, K. A. 1897 A, 134 ("marsupialier").
Zittel and Schlosser 1911 A, 350 (Marsupialia), 350 (Pantotheria).
1923 A, 428, 664.

Suborder POLYPROTODONTIA.

Hay, O. P. 1902 A, 564.
Abel, O. 1913 B, 709.
Abel, O. 1914 A, 43.
1919 A, 717.

Ameghino, F. 1893 C, 77 (Polyprotodonta).
Arldt, T. 1907 D, 675.
1911 A, 231 ("polyprotodontier").
Beddard, F. E. 1902 A, 149.
Briquel, P. 1898 A, 14 ("polyprotodontes").
Broom, R. 1901 B, 735 ("polyprotodonts").
1910 B, 766 ("polyprotodont").
1911 C, 315 ("polyprotodonts").
1914 B, 119 ("polyprotodonts").
Case, E. C. 1898 C, 824 (Polyprotodonta).
Cope, E. D. 1891 N, 69.
Dederer, P. H. 1909 A, 614 (Polyprotodonta).
Dependorf, T. 1907 C, 103 ("polyprotodontier").
Gregory, W. K. 1910 A, 200, 201, 202.
1922 A, 64, 69.
Hennig, E. 1922 A, 258 ("polyprotodontier").
Hilzheimer, M. 1913 A, 522 ("polyprotodontier").
Kükenthal, W. 1913 A, 677.
Leche, W. 1905 A, 578 ("polyprotodontier").
Miller, G. S. 1912 B, 2.
Osborn, H. F. 1907 G, 111.
Palacký, J. 1903 A, 3 ("polyprotodontiden").
Reynolds, S. H. 1897 A, 350.
Schlosser, M. 1902 I, 737 (Polyprotodonta).
Scott, W. B. 1913 A, 630, 640, 671 (Polyprotodonta).
Simpson, G. G. 1927 F, 122, 123.
1928 C, 147.
Sixta, V. 1900 B, 326 ("polyprotodontier").
Steinmann, G. 1907 A, 465.
Stromer, E. 1912 A, 163.
Terra, P. 1911 A, 249.
Thomas, O. 1887 A, 312 ("polyprotodont marsupials").
1888 A, 447 ("polyprotodonts").
1888 C, 219.
Tims, H. W. M. 1902 A, 331.
Trouessart, E. L. 1905 A, 844.
Weber, M. 1904 A, 348.
Weber and Abel 1928 A, 68, 70, 79, 80, 83.
Weber and Burlet 1927 A, xiii.
Winge, H. 1923 A, 91, 93.
Zittel and Schlosser 1911 A, 358.
1923 A, 436.

Superfamily DIDELPHOIDÆ, new form.

Osborn, H. F. 1910 B, 515 (Didelphoidea).
Wright, R. R. 1883 A, 20 (Didelphia).

DIDELPHIDÆ Gray.

Unless otherwise indicated the authors, as quoted, use the spelling Didelphyidæ.

Gray, J. E. 1821 A, 308 (Didelphidæ).
Hay, O. P. 1902 A, 570.
Adloff, P. 1910 B, 230.
Ameghino, F. 1889 A, 1010 (Didelphydæ).
1893 B, 445.
1893 C, 77.
1893 D, 16 ("didelphes").
1897 B, 262 ("opossums").
1898 C, 74 ("didelphydes").
1900 A, 202 (Didelphydæ).
1902 B, 12.
1902 D, 423 (Didelphydæ).
1903 A, 160.
1905 A, 6.
1906 A, 351, 386.
Anderson, C. 1925 A, 24 (Didelphiidæ).
Anthony, R. 1913 A, 264 ("didelphes").
Arldt, T. 1907 D, 650.
1911 A, 230 ("didelphyden").
1912 A, 704, 750.
Bateson, W. 1892 A, 104.
Beddard, F. E. 1902 A, 155.
Bensley, B. A. 1901 A, 431 ("opossums").
1901 B, 120.
1901 C.
1903 A, 181, 204.
1906 A, 1.
Boas, J. E. V. 1914 B, 578 ("didelphyiden").
1918 A, 1 ("didelphyden").
Bonaparte, C. L. 1832 A, 288 (Pedimana).
1840 A, 257 (Didelphidæ).
Cuvier, G. 1805 A ("pedimanes").
1825 A, 284, pls. ("sarigues").
Dollo, L. 1899 A, 193.
Doran, A. H. G. 1878 A, 477, 480.
Elliot, D. G. 1901 A, 1.
Flower, W. H. 1868 C, 635.
Gadow, H. 1916 A, 545 ("opossums").
Gaudry, A. 1906 B, 125 ("sarigues").
Gaupp, E. 1910 C.
Gervais, P. 1859 A, 260 ("didelphidés").
Ghigi, A. 1900 B, 99 ("didelfidi").
Gidley, J. W. 1915 A, 400 (Didelphidæ).
Gill, T. 1885 B, 21.
Gregory, W. K. 1910 A, 201 (Didelphiidæ).
Hilzheimer, M. 1913 A, 522 ("didelphyden").
Hoernes, R. 1886 A, 657.
Huxley, T. H. 1880 E, 464 (Didelphidæ).
Koken, E. 1893 B, 480 ("didelphyden").
Kükenthal, W. 1913 A, 677.
Leche, W. 1887 A.
1912 A, 72.
Le Damany, P. 1903 D, 349 ("sarigues").
Leunis and Ludwig 1883 A, 294.
Lobley, J. L. 1908 A, 201, 205.
Lubosch, W. 1907 A, 618.
1908 B.
Lull, R. S. 1917 B, 338.
Lydekker, R. 1896 C, 193, 271.
Matschie, P. 1896 A, 247.
Matthew, W. D. 1909 C, 103, 105, 110.
1915 A, 184, 262, 268, fig. 31.
1915 K, fig. 17 ("opossum").
1916 A, 482 (Didelphidæ).
Matthew and Granger 1917 A, 323.
Meckel, J. F. 1825 A ("didelphen").
Miller, G. S. 1912 B, 2 (Didelphiidæ).
1924 C, 2 (Didelphiidæ).
Osborn, H. F. 1909 D, 55, 59, 61.
1910 B, 612.
Owen, R. 1841 G, 321, 332 (Scansoria).
1841 H, 380 ("opossums").
Palacký, J. 1903 A, 3 ("didelfiden").
Pander and Alton 1828 A, 1 ("didelphen").
Puccioni, N. 1908 A, 49 ("didelfidi").
Reynolds, S. H. 1897 A, 350, 423, 486, 521.

Scharff, R. F. 1911 A, 183, 229, 367, 403.
Schmidt, O. 1886 A, 97.
Scott, W. B. 1913 A, 627, 630 (Didelphiidæ).
Simpson, G. G. 1926 G, 91 (Didelphiidæ).
1927 F, 122, 123, 126 (Didelphiidæ).
1928 C, 210 (Didelphiidæ).
1928 G, 1 (Didelphiidæ).
Sinclair, W. J. 1905 C, 78.
1906 B, 408.
Stromer, E. 1902 B, 559, 560 ("didelphiden").
Terra, P. 1911 A, 252.
Thomas, O. 1888 A, 453.
1888 C, 315.
1914 A, 417 ("opossums").
Tornier, G. 1894 B, 104 ("didelphiden").
Trouessart, E. L. 1905 A, 850.
Wallace, A. R. 1876 A, II, 248.
1894 A, 436 (Didelphidæ).
Waterhouse, G. R. 1846 A, 462 (Didelphidæ).
Weber, M. 1904 A, 349.
Weber and Abel 1928 A, 68, 70, 82, 91.
Weber and Burlet 1927 A, xiii, 73.
Winge, H. 1923 A, 59, 93, 112 (Didelphyidæ, Didelphiidæ).
Wood, H. E. 1924 A, 85.
Wright, R. R. 1883 A, 24.
Zaaijer, T. 1894 A, 339 (Didelphydæ).
Zittel and Schlosser 1911 A, 362.
1923 A, 441, 442.

PEDIOMYINÆ Simpson.

Simpson, G. G. 1927 F, 122, 123.

PEDIOMYS Marsh. Type *P. elegans* Marsh.

Hay, O. P. 1902 A, 565 (Pediomys); 692 (Protolambda).
Arldt, T. 1912 A, 686 (Protolambda).
Gidley, J. W. 1906 F, 102, pl. v, fig. 6 (Pediomys?); 99, 104, fig. 12 (Protolambda).
Gregory, W. K. 1922 A, 65, 67 (Pediomys); 66 (Protolambda).
Matthew, W. D. 1916 A, 491.
Osborn, H. F. 1907 G, 96, fig. 47 (Protolambda).
Palmer, T. S. 1904 A, 518, 878 (Pediomys); 583, 909 (Protolambda).
Simpson, G. G. 1927 A, 6 (Pediomys).
1927 F, 122, 124 (Pediomys); Protolambda, a syn.).
1928 G, 2, 3.
Zittel and Schlosser 1911 A, 507 (Protolambda).
1923 A, 597, 664, 665 (Protolambda).

Pediomys elegans Marsh.

Hay, O. P. 1902 A, 565.
Ameghino, F. 1893 C, 81.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Merrill, G. P. 1907 A, 54.
Simpson, G. G. 1927 F, 122.
Trouessart, E. L. 1905 A, 843.
Upper Cretaceous (Lance); Wyoming.

Pediomys hatcheri (Osborn).

Hay, O. P. 1902 A, 692 (Protolambda).
Abel, O. 1919 A, 724, fig. 545 (Protolambda).
Mathew, W. D. 1916 A, 478 (Protolambda).
Simpson, G. G. 1927 F, 122.
Upper Cretaceous (Lance); Wyoming.

Pediomys sp. indet.

Simpson, G. G. 1927 A, 5. Upper Cretaceous (Hell Creek); Montana.
1928 G, 4, fig. 1.

NYSSODON Simpson. Type *N. punctidens* Simpson.

Simpson, G. G. 1927 F, 122, 124.

Nyssodon punctidens Simpson.

Simpson, G. G. 1927 F, 122, 124.
Upper Cretaceous (Lance); Wyoming.

THLÆODONTINÆ, new name.

Hay, O. P. 1902 A, 564 (Stagodontidæ, in part).
Cope, E. D. 1892 U, 760 (Thlæodontidæ).
Matthew, W. D. 1914 B, 387 (Thlæodontidæ).
Palmer, T. S. 1904 A, 773, 887 (Syn. of Stagodontidæ).
Simpson, G. G. 1927 F, 122, 124 (Didelphodontinæ; preoccupied by Matthew).

DIDELPHODON Marsh. Type *D. vorax* Marsh. Not preoccupied by *Didelphodus.*

Hay, O. P. 1902 A, 565.
Gregory, W. K. 1910 A, 206, 299 (Didelphops).
1922 A, 66, fig. 37 (Didelphops).
Matthew, W. D. 1906 C, 232 (Didelphops).
1909 D, 338 (Didelphops).
Osborn, H. F. 1907 G, 96, fig. 47, E (Didelphodon?).
1910 B, 515 (Didelphops).
Palmer, T. S. 1904 A, 230, 878 (Didelphodon); 230, 878 (Didelphops).
Simpson, G. G. 1927 A, 5.
1927 B, 9 (Didelphops).
1927 F, 125, 126.
Trouessart, E. L. 1905 A, 826 (Didelphops).
Weber and Abel 1928 A, 90 (Didelphodus).
Wortman, J. L. 1901 B, XI, 337 (Didelphops).

Didelphodon ferox Marsh.

Hay, O. P. 1902 A, 566.
Bowen, C. F. 1915 A, 144 (Didelphops).
Lemoine, V. 1889 A, 240, fig. 1.
Lull, R. S. 1915 D, 323, 345.
Matthew, W. D. 1916 A, 491, 496 (Didelphops).
Merrill, G. P. 1907 A, 34 (Didelphops).
Simpson, G. G. 1927 F, 125, 127.
Trouessart, E. L. 1905 A, 826 (Didelphops).
Upper Cretaceous (Lance); Wyoming.

Didelphodon vorax Marsh.

Hay, O. P. 1902 A, 566.
Abel, O. 1919 A, 724, fig. 545 (Didelphops).
Ameghino, F. 1893 C, 81 (Didelphops).
Bowen, C. F. 1915 A, 144 (Didelphops).
Huene, F. 1918 A, 209 (Didelphys).
Koken, E. 1893 B, 426 (Didelphops).
Lemoine, V. 1889 A, 240, fig. 1.
Lull, R. S. 1915 D, 323, 345.
Matthew, W. D. 1916 A, 491 (Didelphops).
Simpson, G. G. 1927 F, 122, 128.
Trouessart, E. L. 1905 A, 826 (Didelphops).
Upper Cretaceous (Lance); Wyoming.

Didelphodon sp. indet.

Merrill, G. P. 1907 A, 34 (Didelphops). Upper Cretaceous (Lance); Wyoming.

Ectoconodon Osborn. Type *E. petersoni* Osborn.

Hay, O. P. 1902 A, 692.
Cossman, M. 1901 B, 186.
Palmer, T. S. 1904 A, 251, 909.
Schlosser, M. 1902 E, 473.
Simpson, G. G. 1927 F, 121, 125, 126.

Ectoconodon petersoni Osborn.

Hay, O. P. 1902 A, 692.
Abel, O. 1919 A, 724, fig. 545.
Matthew, W. D. 1916 A, 478.
Simpson, S. S. 1927 F, 122, 126.
Upper Cretaceous (Lance); Wyoming.

Thlæodon Cope. Type *T. padanacus* Cope.

Hay, O. P. 1902 A, 565.
Gregory, W. K. 1922 A, 66, 67, 68.
Hennig, E. 1919 A, 6.
Matthew, W. D. 1915 A, 268.
1916 A, 481.
Palmer, T. S. 1904 A, 674, 887.
Simpson, G. G. 1927 B, 9.
1927 F, 121.
1928 K, 465, fig. 4.
Trouessart, E. L. 1905 A, 860.
Weber and Abel 1928 A, 83.
Zittel and Schlosser 1923 A, 441.

Thlæodon padanicus Cope.

Hay, O. P. 1902 A, 565.
Gregory, W. K. 1922 A, 67, fig. 38.
Huene, F. 1918 A, 209.
Lull, R. S. 1915 D, 323.
Matthew, W. D. 1916 A, 478, 492, pls. v. vi, text-fig. 3.
Simpson, G. G. 1927 A, 1, 5.
1927 F, 122, 126.
Zittel and Schlosser 1923 A, 441, fig. 559.
Cretaceous (Lance); Wyoming.

Thlæodon sp. indet.

Simpson, G. G. 1927 A, 5, fig. 4 (This genus?). Upper Cretaceous (Hell Creek); Montana.

Alphodon Simpson. Type *A. marshi* Simpson.

Simpson, G. G. 1927 F, 122 (Alphodon); 125, 130 (Alphadon).

Alphodon marshi Simpson.

Simpson, G. G. 1927 F, 122 (Alphodon); 125, 130 (Alphadon).
Upper Cretaceous (Lance); Wyoming.

CIMOLESTINÆ Trouessart.

Trouessart, E. L. 1905 A, 842.
Hay, O. P. 1902 A, 564 (Stagodontidæ); 565 (Cimolestidæ).
Ameghino, F. 1893 C, 80 (Stagodontidæ).
Gregory, W. K. 1922 A, 64.
Hennig, E. 1921 A, 261 (Cimolestidæ, Stagodontidæ).
Marsh, O. C. 1902 A, 564 (Stagodontidæ); 565 (Cimolestidæ).
Matthew, W. D. 1914 B, 387.
1915 A, 268.
1916 A, 482, 499.
1921 D, 211, 217.
Matthew and Granger 1925 A, 12.
Palmer, T. S. 1904 A, 734, 878 (Cimolestidæ); 771, 887, 889 (Stagodontidæ).
Simpson, G. G. 1927 F, 126 ("Didelphidæ incertæ sedis").
Trouessart, E. L. 1905 A, 860 (Stagodontidæ).

THE FOLLOWING GENERA ARE REFERRED TO THIS SUBFAMILY ONLY PROVISIONALLY.

Cimolestes Marsh. Type *C. incisus* Marsh.

Hay, O. P. 1902 A, 566.
Ameghino, F. 1893 C, 80.
Huene, F. 1918 A, 209.
Koken, E. 1893 B, 426.
Matthew, W. D. 1916 A, 491.
Palmer, T. S. 1904 A, 189, 878.
Simpson, G. G. 1927 F, 127.
Trouessart, E. L. 1905 A, 826.
Woodward, A. S. 1916 B, 527.
Zittel and Schlosser 1911 A, 363.
1923 A, 441 (Syn. of Thlæodon).

Cimolestes incisus Marsh.

Hay, O. P. 1902 A, 566.
Ameghino, F. 1893 C, 81.
Bowen, C. F. 1915 A, 146.
Lemoine, V. 1889 A, 240, fig. 1.
Lull, R. S. 1915 D, 323, 345.
Matthew, W. D. 1916 A, 491.
Simpson, G. G. 1927 F, 122.
Woodward, A. S. 1916 B, 528.
Upper Cretaceous (Lance); Wyoming.

Cimolestes sp. indet.

Douglass, E. 1908 D, 16, pl. i, fig. 17. Paleocene (Fort Union); Montana.

DIAPHORODON Simpson. Type *Cimolestes curtus* Marsh.

Simpson, G. G. 1927 F, 122, 126, 127.

Diaphorodon curtus (Marsh).

Hay, O. P. 1902 A, 566 (Cimolestes).
Ameghino, F. 1893 C, 81 (Cimolestes).
Bowen, C. F. 1915 A, 146 (Cimolestes).
Lull, R. S. 1915 D, 323, 345 (Cimolestes).
Matthew, W. D. 1916 A, 488, 491, 496 (Cimolestes).
Simpson, G. G. 1927 F, 122, 127, 130.
Woodward, A. S. 1916 B, 528 (Cimolestes).
Upper Cretaceous (Lance); Wyoming.

DELPHODON Simpson. Type *Didelphodon comptus* Marsh.

Simpson, G. G. 1927 F, 122, 127.

Delphodon comptus (Marsh).

Hay, O. P. 1902 A, 566 (Didelphodon).
Ameghino, F. 1893 C, 81 (Didelphops).
Bowen, C. F. 1915 A, 144 (Didelphops).
Lemoine, V. 1889 A, 240, fig. 1 (Didelphodon).
Lull, R. S. 1915 D, 323, 345 (Didelphodon).
Matthew, W. D. 1916 A, 491, 496 (Didelphodon).
Merrill, G. P. 1907 A, 34 (Didelphops).
Simpson, G. G. 1927 F, 122, 127.
Trouessart, E. L. 1905 A, 826 (Didelphops).
Upper Cretaceous (Lance); Wyoming.

STAGODON Marsh. Type *S. nitor* Marsh.

Hay, O. P. 1902 A, 564.
Huene, F. 1918 A, 209.
Matthew, W. D. 1916 A, 492.
Palmer, T. S. 1904 A, 642, 887.
Simpson, G. G. 1927 F, 122, 126, 128.
Trouessart, E. L. 1905 A, 860.
Woodward, A. S. 1916 B, 528.

Stagodon nitor Marsh.

Hay, O. P. 1902 A, 564.
Ameghino, F. 1893 C, 80.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Simpson, G. G. 1927 F, 128.
Trouessart, E. L. 1905 A, 860.
Upper Cretaceous (Lance); Wyoming.

Stagodon tumidus Marsh.

Hay, O. P. 1902 A, 565.
Ameghino, F. 1893 C, 80.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Trouessart, E. L. 1905 A, 860.
Upper Cretaceous (Lance); Wyoming.

Stagodon validus Marsh.

Hay, O. P. 1902 A, 565.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Matthew, W. D. 1916 A, 493, 496.
Merrill, G. P. 1907 A, 60.
Upper Cretaceous (Lance); Wyoming.

Stagodon sp. indet.

Simpson, G. G. 1927 A, 5 (This genus?). Upper Cretaceous (Hell Creek); Montana.

BATODON Marsh. Type *B. tenuis* Marsh.

Hay, O. P. 1902 A, 565.
Matthew, W. D. 1916 A, 497.
Palmer, T. S. 1904 A, 134, 878.
Simpson, G. G. 1927 A, 7.
1927 B, 9.
1927 F, 129.
A genus of uncertain position.

Batodon tenuis Marsh.

Hay, O. P. 1902 A, 565.
Bowen, C. F. 1915 A, 146.
Douglass, E. 1908 D, 15.
Lull, R. S. 1915 D, 323, 345.
Merrill, G. P. 1907 A, 25.
Simpson, G. G. 1927 F, 122, 129.
Trouessart, E. L. 1905 A, 842.
Upper Cretaceous (Lance); Wyoming: Paleocene (Fort Union); Montana.

Batodon sp. indet.

Douglass, E. 1908 D, 15. Paleocene (Fort Union); Montana.

DIDELPHINÆ.

Simpson, G. G. 1927 F, 123.

PERATHERIUM Aymard. Type not indicated.

Aymard, A. 1850, Ann. Soc. Agri. Sci., Arts. et Comm. du Puy, xiv, 81, 83-84.
Hay, O. P. 1902 A, 570 (Didelphis, in part).
Bensley, B. A. 1903 A, 181.

Bensley, B. A. 1906 A, 13.
Chardin, P. T. 1927 A, 7, fig. 1.
Depéret, C. 1905 C, 705.
1906 A, 619.
1908 A, 169.
Douglass, E. 1905 A, 211.
Filhol, H. 1877 A, 247.
Gervais, P. 1859 A, 261.
Gidley, J. W. 1915 A, 400.
Gregory, W. K. 1910 A, 205.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 110.
1909 D, 339, 540, pl. xlix, fig. 4; pl. l, fig. 9.
1915 A, 268.
1915 K, 420.
Osborn, H. F. 1907 G, 109.
1910 B, 627.
Scott, W. B. 1913 A, 627, 631.
Seeley, H. G. 1886 A, 418.
Simpson, G. G. 1928 G, 1-6.
Stock and Furlong 1922 A, 311.
Troxell, E. L. 1923 F, 507.
Winge, H. 1923 A, 60, 85, 91, 98 (Perotherium).
Woodward, A. S. 1898 B, 260.

Peratherium alternans Cope.

Hay, O. P. 1902 A, 571 (Didelphis).
Matthew, W. D. 1909 C, 105.
Middle Oligocene (Cedar Creek); Colorado.

Peratherium comstocki Cope.

Hay, O. P. 1902 A, 571 (Didelphis).
Matthew, W. D. 1909 C, 93.
Osborn, H. F. 1909 D, 46.
Palacký, J. 1903 A, 5 (Didelphys).
Simpson, G. G. 1928 G, 1, 5, fig. 2.
Lower Eocene (Wind River); Wyoming.

Peratherium fugax Cope.

Hay, O. P. 1902 A, 571 (Didelphis).
Bensley, B. A. 1901 C, 249.
Cook, H. J. 1912 D, 35.
Cope, E. D. 1891 N, 69, fig. 37.
Matthew, W. D. 1909 C, 105.
Seeley, H. G. 1886 A, 513, figs.
Simpson, G. G. 1928 G, 4, fig. 1.
Stock and Furlong 1922 A, 311.
Troxell, E. L. 1923 F, 507.
Middle Oligocene (Cedar Creek); Colorado: (Brule?); Nebraska.

Peratherium huntii Cope.

Hay, O. P. 1902 A, 571 (Didelphis).
Matthew, W. D. 1909 C, 105.
Middle Oligocene (Cedar Creek); Colorado.

Peratherium innominatum Simpson.

Simpson, G. G. 1928 G, 4, 6, figs. 3, 5.
Middle Eocene (Lower Bridger); Wyoming.

Peratherium marginale Cope.

Hay, O. P. 1902 A, 571 (Didelphis).
Matthew, W. D. 1909 C, 105.
Middle Oligocene (Cedar Creek); Colorado.

Peratherium marsupium (Troxell).

Troxell, E. L. 1923 F, 508, figs. 1-3 (Herpetotherium).
Simpson, G. G. 1928 G, 3, 5, figs. 1-4.
Middle Eocene (Bridger); Wyoming.

Peratherium merriami Stock and Furlong.

Stock and Furlong 1922 A, 312, figs. 1-5.
Simpson, G. G. 1928 G, 1.
Oligocene (John Day); Oregon.

Peratherium pygmæum (Scott).

Hay, O. P. 1902 A, 571 (Didelphis).
Dall and Harris 1892 A, 305 (Didelphys).
Matthew, W. D. 1909 C, 105.
Middle Oligocene (Cedar Creek); Colorado.

Peratherium scalare Cope.

Hay, O. P. 1902 A, 571 (Didelphis).
Matthew, W. D. 1909 C, 105.
Middle Oligocene (Cedar Creek); Colorado.

Peratherium titanelix Matthew.

Matthew, W. D. 1903 B, 202, fig. 1.
1909 C, 103.
Troxell, E. L. 1923 F, 507.
Lower Oligocene (Chadron); Montana.

Peratherium tricuspe Cope.

Hay, O. P. 1902 A, 571 (Didelphis).
Matthew, W. D. 1909 C, 105.
Middle Oligocene (Cedar Creek); Colorado.

Peratherium sp. indet.

Douglass, E. 1908 D, 16. Paleocene (Fort Union); Montana.

PERADECTES Matthew and Granger. Type *P. elegans* Matthew and Granger.

Matthew and Granger 1921 A, 2.
Carter, J. T. 1922 A, 604, 606.
Simpson, G. G. 1928 G, 3.
Winge, H. 1923 A, 101 (Perodectes).
Zittel and Schlosser 1923 A, 441.

Peradectes elegans Matthew and Granger.

Matthew and Granger 1921 A, 2.
Reeside, J. B. 1924 A, 47.
Simpson, G. G. 1928 G, 1, figs. 1-3.
Paleocene (Tiffany); Colorado.

EODELPHIS Matthew. Type *E. browni* Matthew.

Matthew, W. D. 1916 A, 482.
Gregory, W. K. 1922 A, 65, 70.
1927 G, 268, fig. 1.
Hennig, E. 1919 A, 6 (Eodidelphys).
Simpson, G. G. 1927 A, 6.
1927 F, 126.
1928 C, 147.
Sternberg, C. M. 1926 A, 103.

Weber and Abel 1928 A, 91.
Winge, H. 1923 A, 101, 108 (Eodidelphis).
Zittel and Schlosser 1923 A, 441 (Eodelphys).

Eodelphis browni Matthew.

Matthew, W. D. 1916 A, 482, pls. ii-iv; text-figs. 1, 2.
Gregory, W. K. 1922 A, 64, fig. 36.
Huene, F. 1918 A, 209.
Longman, H. A. 1924 A, 9.
Simpson, G. G. 1928 C, 147.
Weber and Abel 1928 A, 83, fig. 44.
Upper Cretaceous (Belly River); Alberta.

Eodelphis cutleri (Woodward).

Woodward, A. S. 1916 D, Abstr. 158, 30 (Cimolestes).
Simpson, G. G. 1928 C, 148.
Woodward, A. S. 1916 E, 525, fig. 1 (Cimolestes).
Upper Cretaceous (Belly River); Alberta.

Didelphis Linnæus. Type *D. marsupialis* Linnæus.

Unless otherwise indicated the authors, as quoted, use the spelling *Didelphys*.
Hay, O. P. 1902 A, 570 (Didelphis).
Abel, O. 1912 F, 224, fig. 152.
1914 C, 335, 336, figs. 5, 6.
Adams, L. A. 1919 A, 115, pl. x.
Adloff, P. 1918 A, 137, figs. 6, 7 (Didelphis).
Allen, J. A. 1892 A.
1901 B, 149.
1901 D, 185.
1902 B, 249.
Ameghino, F. 1889 A, 1010.
1897 B, 260.
1900 A, 204.
1902 A, 21.
1902 B, 6.
1902 D, 432.
1903 A, 160.
1904 A, 529.
1905 A, 6.
1905 C, 413, figs. 62, 96.
1906 A, 285, 388.
Anthony, R. 1912 A ("sarigue").
Arldt, T. 1907 B, 456.
1907 D, 650.
Baird, S. F. 1876 A, ccviii ("opossum").
Bardeleben, K. 1885 B, 86.
1901 A, 95.
Bardenfleth, K. S. 1913 A, 71.
Beddard, F. E. 1902 A, 155.
Behlen, H. 1906 A, 195.
Bensley, B. A. 1901 C, 249 (Peratherium).
1902 A, 7.
1903 A, 182.
1906 A, 5, 12.
Blendinger, W. 1904 A, 467, figs. 15, 16.
Bluntschli, H. 1912 B, 367, fig. 7.
Boas, J. E. V. 1909 A, 524.
1914 C, 301, fig. 90.
Bolk, L. 1916 A, 735.
Bronn, H. G. 1848 A, 423.
1849 A, 718, 783, seq.
Broom, R. 1901 B, 738.
1910 B, 766.
Carlsson, A. 1922 A.
Cleland, J. 1863 B, 302 ("opossum").
Cope, E. D. 1880 U, 156.
Cuvier, F. 1825 A, 73, pl. xxiii, C ("sarigues").
Cuvier, G. 1805 A.
Dana, J. D. 1863 C, 342.
Dependorf, T. 1898 A, 246.
1907 C, 103.
Doran, A. H. G. 1878 A, 480.
Eggeling, H. 1904 A, 86.
Eimer, G. H. T. 1901 A, 139.
Eisler, P. 1895 A.
Elliot, D. G. 1901 A, 1.
Emery, C. 1901 A, 671, figs. 14, 16.
Fischer, J. B. 1829 A, 263.
Flower, W. H. 1870 A, 244.
Frassetto, F. 1915 A, fig. 91.
Frech, F. 1906 A, 485, 487.
1907 A, 315.
Fuchs, H. 1906 A, 19.
1907 A, 163.
1908 B, 585, figs. 1, 2.
1909 D, 33, figs. 11*a*, 11*b*; 122, fig. 25.
1910 A, 48.
1911 B, 379, figs. 13-15, 41
1911 D, 112.
1914 A, 38.
1922 A, 283.
Gaupp, E. 1905 C, 128.
1905 D, 1042.
1905 E, 159.
1908 C, 673, 745.
1910 C, 396.
1911 B, 99.
1911 D, 625.
1913 A, 62, fig. 32.
Gegenbaur, C. 1864 C, 176, fig. 1.
1865 C, 546, fig. 1.
Gervais, P. 1852 A, 133, pl. xlv.
1853 B, 68 ("didelphes").
1859 A, 262, pl. xlv.
Giebel, C. G. 1855 A, 40, pl. xvii, figs. 10, 12.
1883 A, pls. xix, xlvii, lix, lxiii, lxxviii.
Grant, M. 1904 B, 205.
Gregory, W. K. 1910 A, 192, 218, 437, 440 (Didelphis).
1916 A, 244, pl. i, M; text-figs. 7, 9 (Didelphis).
1920 A, 140, fig. 63 (Didelphis).
1921 A, 68, 77, pl. xxvii (Didelphis).
1927 G, 270 ("opossum").
Hasse and Schwarck 1870 A, 152.
Hay, O. P. 1928 C, 425.
Heilprin, A. 1887 A, 334, 335.
Henckel, K. O. 1927 A, 375.
Hensel, R. 1879 A, 531.
Hill, J. P. 1897 A, 408.
Hilzheimer, M. 1913 A, 521.
Hommes, J. H. 1924 A, 21.
Hopewell-Smith and Tims 1911 A, 941.
Huene, F. 1918 A, 208.
Ihering, H. 1909 A, 300.
Jaeger, G. F. 1842 A, 435.
Kampfen, P. N. 1922 A, 54.
Kehrer, F. A. 1896 A, 354.
Kingsley, J. S. 1925 A, 205, fig. 215.

Klaauw, C. J. 1924 A, 240.
1924 B, 600.
Köstlin, O. 1844 A.
Lavocat, A. 1896 A, 26.
Leboucq, H. 1884 A, 75.
Leche, W. 1887 A.
1900 A, 995, 1002.
1904 A, 219.
Lobley, J. L. 1908 A, 196.
Lubosch, W. 1908 B.
1911 B, 744.
Lydekker, R. 1896 C, 196, 271.
Major, C. J. F. 1880 A, 39.
Martins, C. 1857 A, 76.
Matthes, E. 1921 C.
Matthew, W. D. 1906 C, 214.
1909 D, 335, text-fig. 6 ("opossum").
1915 A, 268.
1916 A, 481 (Didelphis).
1917 A, 574 (Didelphis).
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 60 (Didelphis).
Miller, G. S. 1912 B, 2 (Didelphis).
1923 C, 2 (Didelphis).
Oehngren, S. 1919 A, 173, figs. 15-17.
Osborn, H. F. 1893 N, 187.
1901 B, 216, 472, 516.
1901 F, 331.
1907 G, 108, figs. 58, 209.
1917 B, 235, fig.
Owen, R. 1841 G, 321.
1845 B, 380.
1868 A, 877.
Palacký, J. 1902 B, 142.
Palmer, T. S. 1904 A, 229, 879.
Pander and Alton 1828 A, 1.
Parker and Haswell 1897 A, 531.
Peters, W. 1867 A, 728.
1867 C, 953.
1868 B, 390.
Pfeiffer, H. 1854 A, 13 (Didelphis).
Pictet, F. J. 1853 A, 395.
Puccioni, N. 1908 A, 55.
Rathke, H. 1846 A, 168.
Rehn, J. A. G. 1901 A, 147 (Didelphis).
Rehs, J. 1914 A, 35.
Retterer, E. 1916 A, 767 ("sarigues").
Reynolds, S. H. 1897 A, 422, 443.
Röse, C. 1892 F, 402, 405.
1897 A, 66, fig. 26.
Romer, A. S. 1922 B, *passim*, pls. xxvii*b*; xxviii*b*-xxxvi; xxxviii*a*, xxxviii*b*; xl-xlvi.
Rosenberg, E. 1895 A, 298.
Schapiro, B. 1913 A, 219.
Scharff, R. F. 1911 A, 182, 283, 367.
Schlosser, M. 1899 C, 165.
1899 L, 353.
1902 F, 135.
1902 I, 737, 738.
1921 A, 122.
Schmalhausen, J. J. 1908 A, 342.
1908 B, 376, fig. 3.
Schwalbe, G. 1904 A, 206.
Sclater, P. L. 1875 A, 213.
Scott, W. B. 1913 A, 631 (Didelphis).
1916 A, 115 ("opossums").
1917 A, 127, 133, 134 ("opossum").
Simpson, G. G. 1926 D, 248.
Simpson, G. G. 1927 F, 123.
1928 C, 209, figs. 46, 48, 50, 52, 53.
1928 G, 2, 4, fig. 1.
Sinclair, W. J. 1906 B, 466.
Sixta, V. 1900 B, 328.
Stromer, E. 1902 B, 560.
Taschenberg, O. 1899 A, 4540.
Terra, P. 1911 A, 252, fig. 84.
Thomas, O. 1888 A, 447, 457.
1888 C, 316.
1901 A, 144 (Didelphis).
Thompson, A. H. 1900 A, 922.
Tims, H. W. M. 1902 A, 329.
1905 B, 1785.
Tornier, G. 1891 A, 114.
Trouessart, E. L. 1905 A, 850.
Troxell, E. L. 1923 F, 509.
Van den Broeck, A. J. P. 1912 A, 782.
Virchow, H. 1917 A, 233, figs. 1-6.
Wallace, A. R. 1876 A, I, 126, 130, 145.
Waterhouse, G. R. 1846 A, 464.
Watson, D. M. S. 1913 D, 24 (Didelphis).
Weber, M. 1904 A, 349, 354.
Weber and Abel 1928 A, 49, 71, figs. 17, 31 (Didelphys).
Weber and Burlet 1927 A.
Weil, R. 1900 A, 103, pls. i, ii.
Wiedersheim, R. 1892 A, 57, pl. vii, fig. 15.
Winge, H. 1893 C, 37.
1923 A, 61, 87, 90, 93, 115 (Didelphis, Didelphys).
Woodward, A. S. 1898 D, 331, 332.
Woodward, M. F. 1894 B, 444.
Wortman, J. L. 1901 B, XI, 338 ("opossum").
Wright, R. R. 1883 A, 24.
Zittel and Schlosser 1911 A, 363.
1923 A, 441, figs. 560, 685.

Didelphis valens Lambe.

Lambe, L. M. 1908 A, 10, 22, pl. viii, figs. 1-7.
Oligocene (Cypress Hills); Saskatchewan.

Didelphis virginiana Kerr.

Hay, O. P. 1902 A, 571.
Agassiz, L. 1859 B, 186 ("opossum").
Allen, J. A. 1901 B, 160, 180, pl. xxii.
1901 D, 187 (D. marsupialis).
1902 B, 256.
Ameghino, F. 1912 B, 179 (Didelphys).
Baker, F. C. 1920 A, 373.
Bangs, O. 1898 A, 172.
Bluntschli, H. 1912 B, 366, fig. 7.
Broom, R. 1926 A, 261.
Cope, E. D. 1895 G, 596 (Didelphys).
Eimer, G. H. T. 1901 A, 15, 16.
Elliot, D. G. 1901 A, 1, fig. 1 (Didelphys).
Eudes-Deslongchamps, E. 1842 C, 37, pl. iv.
Flower, W. H. 1868 C, 635, pl. xxx, fig. 5.
Foote, J. S. 1916 A, 147, pl. xx (Didelphys).
Frech and Geinitz 1903 A, 36 (Didelphys).
Fuchs, H. 1906 A, 34 (Didelphys).
Gaupp, E. 1905 C, 126, fig. 1 (Didelphys).
Gidley, J. W. 1927 E, 274.
Giebel, C. G. 1883 A, pls. lix, lxxxv (Didelphys).
Gregory, W. K. 1919 B, 422, fig. 5 ("opossum").
1921 A, 239.
Haacke, W. 1886 A, 367 (Didelphys).
Hanson, F. B. 1920 B, 330 (Didelphys).

Hay, O. P. 1917 E, 44.
1920 B, 135.
1923 A, 363, 382.
1927 D, 274.
Holmes, F. S. 1859 A, 184 ("opossum").
1860 A, IV ("opossum").
Lydekker, R. 1896 C, 196 (D. marsupialis).
Matthew, W. D. 1916 A, 497, fig. 4.
1925 A, 97 (D. sp.).
Miller, G. S. 1912 B, 3.
1924 C, 3.
Owen, R. 1838 A, 123 ("opossum").
1841 H, 382, 386 ("virginia opossum").
1845 B, pl. xcviii, fig. 6.
1868 A, 877.
Pander and Alton 1828 A, 1, pl. vi.
Paulli, S. 1899 A, 172 (Didelphys).
Rehn, J. A. G. 1901 A, 149.
Scharff, R. F. 1911 A, 284, 366 (Didelphys marsupialis).
Schmidt, E. 1872 A, 251 (Didelphys).
Sellards, E. H. 1916 C, 139, 140, 148, 158.
1916 D, 616.
1916 E, 16, 17.
Simpson, G. G. 1928 H, 1.
Stromer, E. 1902 B, 556.
Thomas, O. 1901 A, 145.
Trouessart, E. L. 1905 A, 852 (Didelphys).
Troxell, E. L. 1923 F, 509, fig. 4.
Turner, H. N. 1847 A, 114, fig. 2 (Didelphys).
Waterhouse, G. R. 1846 A, 465.
Wood, H. E. 1924 A, tables 1, 2.
Wortman, J. L. 1901 B, XII, 379, text-fig. 46.
Wright, R. R. 1883 A, 24, figs. 5-8 (Didelphys).

Recent; Great Lakes to Oklahoma and Texas nearly to Gulf, Hudson Valley to Florida and west to Louisiana: Pleistocene; Florida, Texas.

Didelphis sp. indet.

Cooke, C. W. 1926 A, 445 ("opossum"). Pleistocene; Florida.

THYLACODON Matthew and Granger. Type *T. pusillus* Matthew and Granger.

Matthew and Granger 1921 A, 2.
Zittel and Schlosser 1923 A, 441.

Thylacodon pusillus Matthew and Granger.

Matthew and Granger 1921 A, 2.
Simpson, G. G. 1928 G, 1.

Paleocene (Puerco); New Mexico.

TELACODON Marsh. Type *T. lævis* Marsh.

Hay, O. P. 1902 A, 566.
Gidley, J. W. 1906 F, 103.
Matthew, W. D. 1916 A, 491, 497.
Palmer, T. S. 1904 A, 666, 878.
Simpson, G. G. 1927 A, 7.
1927 F, 129.

A genus of uncertain position. It may belong among the *Monodelphia.*

Telacodon lævis Marsh.

Hay, O. P. 1902 A, 566.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Merrill, G. P. 1907 A, 62.
Simpson, G. G. 1927 F, 122, 129.
Trouessart, E. L. 1905 A, 842.

Upper Cretaceous (Lance); Wyoming.

Telacodon præstans Marsh.

Hay, O. P. 1902 A, 566.
Bowen, C. F. 1915 A, 146.
Lull, R. S. 1915 D, 323, 345.
Merrill, G. P. 1907 A, 62.
Simpson, G. G. 1927 F, 129 (This genus?).

Upper Cretaceous (Lance); Wyoming.

SYNCONODON Osborn. Type *S. sexcuspis* Osborn.

Hay, O. P. 1902 A, 692.
Cossmann, M. 1901 B, 186.
Osborn, H. F. 1907 G, 96, fig. 47.
Palmer, T. S. 1904 A, 656, 909.
Schlosser, M. 1902 E, 473.
Simpson, G. G. 1927 F, 121, 129.

The systematic position of this genus is doubtful.

Synconodon sexcuspis Osborn.

Hay, O. P. 1902 A, 692.
Abel, O. 1919 A, 724, fig. 545.
Matthew, W. D. 1916 A, 478.
Simpson, G. G. 1927 F, 123, 129.

Cretaceous (Lance); Wyoming.

Subclass MONODELPHIA.

Hay, O. P. 1902 A, 571.
Abel, O. 1907 E, (249) ("placentalier").
1913 B, 710 (Placentalia).
1914 A, 48 ("placentalier").
1919 A, 721 (Placentalia).
Adloff, P. 1906 A, 114 ("placentalier").
1907 A, 532 ("placentalier").
1910 B, 277 ("placentalier").
1918 A, 129 ("plazentalier").
Ärnbäck-Christie-Linde, A. 1912 A, 621.
Ahrens, H. 1912 A, 508 ("plazentalier").
Anthony, R. 1913 A, 256 ("euthériens").
Arldt, T. 1907 D, 674 (Placentalia).
1907 E, 208 ("placentalier").
Beer, G. R. 1926 A, 327, 330 (Placentalia).
Behlen, H. 1906 A, 197 ("placentalier").
Bensley, B. A. 1901 B, 117 (Placentalia).
1903 A, 84 (Eutheria).
Bolk, L. 1916 A, 715.
Bonaparte, C. L. 1838 B, 107 (Placentalia).
Braus, H. 1906 A, 317 ("placentalier").
Broom, R. 1897 B, 252 (Eutheria).

Broom, R. 1897 D, 513 (Eutheria).
1899 A, 749 (Eutheria).
1903 I, 557 (Eutheria).
1909 D, 210 (Eutheria).
Carus, V. 1875 A, 63, 66.
Dependorff, T. 1898 A, 382 ("placentalier").
1907 C, 102 ("placentalier").
Duckworth, W. L. H. 1904 A, 23 (Eutheria).
Fraas, E. 1905 B, 382.
Gadow, H. 1912 A, 818 (Eutheria).
Gill, T. 1886 A, 46.
Gottlieb, H. 1914 A, 185.
Gregory, W. K. 1910 A, 231, 464.
1920 A, 236 (Placentalia).
1927 D, 231 ("placentals").
Gregory and Camp 1918 A ("placentals").
Haeckel, E. 1868 A, 441 (Placentalia).
1873 A, 512, 549 (Placentalia).
1893 A, xx, xxii ("placentalien").
Hatschek, B. 1889 B, 117 ("amnioten").
Hay, O. P. 1912 D, 579.
Hennig, E. 1922 A, 258 ("placentalier"); 260 (Eutheria).
Hill, J. P. 1897 A, 436 (Eutheria).
Hogben, L. T. 1919 A, 72 (Placentalia).
Howes, G. B. 1893 C, 591 (Placentalia).
1894 A, 87 (Placentalia).
1902 A, 524 (Placentalia).
Hubrecht, A. A. W. 1897 A, 27 (Placentalia).
1908 A, 157.
Huxley, T. H. 1863 E, 527.
1870 F, 538.
1880 E, 467 (Eutheria).
Kükenthal, W. 1913 A, 677.
Leche, W. 1900 A, 999 (Placentalia).
Lydekker, R. 1893 F, 174 (Placentalia).
1899 B, 922 (Placentalia).
Matthew, W. D. 1914 D, 491.
1915 K, 441 ("placental mammals").
Meunier, S. 1903 A, 776 ("monodelphes").
Osborn, H. F. 1897 I, 107 (Meseutheria, Ceneutheria).
1899 J, 415 (Placentalia).
Osborn, H. F. 1907 H, 613.
Owen, R. 1845 E, 120 ("placentaires").
1848 B, 199 ("placental mammals").
Parker, W. K. 1885 C, 116 (Eutheria).
1886 A, 121, 269 (Eutheria).
Parker and Haswell 1897 A, 449 (Eutheria).
Rabl, C, 1903 A, 175 ("Choriata").
Schlosser, M. 1898 D, 124 (Placentalia).
1900 C, 133 ("placentalier").
Scott, W. B. 1913 A, 58, 59, 145.
Simpson, G. G. 1927 F, 129 (Placentalia. This order?).
1928 C, 183 (Placentalia).
Sixta, V. 1899 A, 329 ("placentalier").
Smith, G. E. 1911 A, 293 (Eutheria).
1912 A, 425 (Eutheria).
Steinmann, G. 1907 A, 467 (Placentalia).
Stromer, E. 1908 A, 87.
1908 B, 170.
1912 A, 243.
Terra, P. 1911 A, 257.
Thacker, A. G. 1922 A, 606 (Placentalia).
Thomas, O. 1887 A, 310 ("placentals").
1888 A, 450 (Placentalia, Eutheria).
Thompson, A. H. 1906 A, 262 ("placental mammals").
Tims, H. W. M. 1902 A, 32 (Eutheria).
1911 A, 294 (Eutheria).
Tomes, C. S. 1900 A, 35 ("placentals").
Tornier, G. 1888 A, 235 ("placentalthier").
1894 A, 97 ("placentalier").
Underhill, B. M. 1910 A, 75 (Placentalia).
Weber, M. 1904 A, 362.
Weber and Abel 1928 A, 3, 5, 93.
Weber and Burlet 1927 A.
Wiedersheim, R. 1892 A, 61 (Placentalia).
Winge, H. 1906 A, 53 (Placentalia).
1923 A, 55, 116 (Placentalia).
Woodward, H. 1904 B, 154 (Eutheria).
Wortman, J. L. 1901 B, xi, 335.
Zittel and Schlosser 1911 A, 364 (Placentalia).
1923 A, 443 (Placentalia).

Order TÆNIODONTA Cope.

Hay, O. P. 1902 A, 572.
Abel, O. 1912 F, 509 (Ganodonta).
1913 B, 725 (Ganodonta).
1914 A, 100 (Ganodonta).
1919 A, 773.
1920 A, 426 (Ganodonta).
Ameghino, F. 1889 A, 1025.
1906 E, 230 (Ganodonta).
Anonymous 1897 A, 152 (Ganodonta).
Arldt, T. 1912 A, 686 (Ganodonta).
Beddard, F. E. 1902 A, 190 (Ganodonta).
Case, E. C. 1898 C, 828 (Ganodonta).
Clark and Sonntag 1896 A, 461 (Ganodonta).
Cope, E. D. 1880 U, 149 ("taeniodontes").
1885 BB, 72.
Delafontaine, M. 1875 A, 170 ("tillodontes").
Fischer, E. 1903 A, 721 ("tæniodonten").
Gregory, W. K. 1910 A, 99, 341, 465 (Ganodonta).
1920 A, 166, 241.
Hilzheimer, M. 1913 A, 569 (Ganodonta).
Koken, E. 1893 B, 486.
Lane, H. H. 1909 A, 25.
1910 A, 914.
Loomis, F. B. 1921 A, 190 (Ganodonta).
Lydekker, R. 1903 D, 125 ("tæniodonts").
Matthew, W. D. 1909 C, 92, 94, 97, 102.
1909 D, 301.
1915 A, 259, fig. 30.
1915 K, 470.
1918 H, 609, 620.
1921 D, 212, 214.
1928 B, 957, 965, 977.
Osborn, H. F. 1897 I, 107 (Ganodonta).
1899 J, 415 (Ganodonta).
1902 E, 356, fig. 1.
1907 G, 151.
1909 D, 136.
1910 B, 632.
1925 B, 18.
Palacký, J. 1902 A, 3 ("ganodonten").
Scharff, R. F. 1911 A, 244 (Ganodonta).
Schlosser, M. 1898 B, 360, 361, 366 (Tillodontia).
1899 U, 462.

Schlosser, M. 1905 B, 126 (Ganodonta).
Scott, W. B. 1905 B, 361 (Ganodonta).
1913 A, 267, 276, 286 (Tæniodontia); 625 (Ganodonta).
Seeley, H. G. 1886 A, 414.
Sinclair, W. J. 1905 D, 361 (Ganodonta).
Stromer, E. 1912 A, 175 (Ganodonta).
Terra, P. 1911 A, 264 (Ganodonta).
Thacker, A. G. 1922 A, 601, 603.
Trouessart, E. L. 1897 B, 87 (Ganodonta).
1905 A, 823 (Ganodonta).
Weber, M. 1904 A, 468, 510 (Ganodonta); 514 (Tæniodonta).
Weber and Abel 1928 A, 125, 236 (Ganodonta, Tæniodonta).
Zittel and Schlosser 1911 A, 413 (Ganodonta).
1923 A, 496 (Ganodonta); 665-667 (Tæniodontia).

CONORYCTIDÆ Wortman.

Hay, O. P. 1902 A, 572.
Anonymous 1897 A, 151.
Arldt, T. 1907 D, 620.
1912 A, 700.
Beddard, F. E. 1902 A, 193.
Lane, H. H. 1909 A, 25.
1910 A, 914.
Matthew, W. D. 1909 C, 92, 102.
1914 B, 387.
1921 D, 212.
Osborn, H. F. 1909 D, 34.
Schlosser, M. 1899 U, 463 ("conorycti").
Trouessart, E. L. 1897 B, 87.
1905 A, 823.
Weber, M. 1904 A, 468.
Weber and Abel 1928 A, 236.
Winge, H. 1917 A, 91 (Conoryctidæ); 92, 105, 108 (Conoryctini).
Zittel and Schlosser 1911 A, 414 (Conoryctinæ).
1923 A, 497 (Conoryctinæ).

CONORYCTES Cope. Type *C. comma* Cope.

Hay, O. P. 1902 A, 573.
Abel, O. 1913 B, 725.
1914 A, 101.
1919 A, 773.
Ameghino, F. 1906 E, 230.
Anonymous 1897 A, 151.
Beddard, F. E. 1902 A, 193.
Behlen, H. 1906 A, 193.
Haug, E. 1911 A, 1528.
Loomis, F. B. 1922 A, 62.
Matthew, W. D. 1909 C, 102.
1915 K, fig. 37.
1918 H, 609.
1924 E, 749.
1928 B, 957.
Osborn, H. F. 1907 G, 152, fig. 117.
1910 B, 109, 540.
Palmer, T. S. 1904 A, 199, 813.
Scharff, R. F. 1911 A, 244.
Schlosser, M. 1898 B, 362, 366.
Schlosser, M. 1899 U, 461.
Seeley, H. G. 1886 A, 415.
Weber, M. 1904 A, 468.
Weber and Abel 1928 A, 236.
Winge, H. 1917 A, 105, 181 (Conoryctes, Hexodon).
1923 A, 134, 196, 212.
Zittel and Schlosser 1911 A, 414.
1923 A, 497, 665.

Conoryctes comma Cope.

Hay, O. P. 1902 A, 573.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Trouessart, E. L. 1905 A, 823.
Zittel and Schlosser 1911 A, 414, fig. 575.
1923 A, 497, fig. 615.
Paleocene (Torrejon); New Mexico.

ONYCHODECTES Cope. Type *O. tisonensis* Cope.

Hay, O. P. 1902 A, 573.
Abel, O. 1913 B, 725.
1914 A, 101.
1919 A, 773.
Ameghino, F. 1906 A, 284.
1906 E, 230.
Anonymous 1897 A, 151.
Beddard, F. E. 1902 A, 193.
Gregory, W. K. 1920 A, 167, 241, fig. 112.
Haug, E. 1911 A, 1527.
Loomis, F. B. 1922 A, 62 (Onchodectes).
Matthew, W. D. 1909 C, 102.
1915 K, fig. 37.
1918 H, 610.
1924 E, 749.
1928 B, 957.
Matthew and Granger 1925 A, 7.
Osborn, H. F. 1907 G, 152, figs. 118, 119.
Palmer, T. S. 1904 A, 475, 813.
Scharff, R. F. 1911 A, 244.
Schlosser, M. 1898 B, 362, 366.
Schlosser, M. 1899 U, 462.
Weber, M. 1904 A, 468.
Weber and Abel 1928 A, 236.
Winge, H. 1917 A, 105, 108.
1923 A, 134, 212, 215, 216.
Zittel and Schlosser 1911 A, 414.
1923 A, 497.

Onychodectes rarus Osborn and Earle.

Hay, O. P. 1902 A, 573.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 366.
Trouessart, E. L. 1905 A, 823.
Paleocene (Puerco); New Mexico.

Onychodectes tisonensis Cope.

Hay, O. P. 1902 A, 573.
Beddard, F. E. 1902 A, 193.

Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 366.
Paleocene (Puerco); New Mexico.

STYLINODONTIDÆ Marsh.

Hay, O. P. 1902 A, 573.
Ameghino, F. 1889 A, 894 (Calamodontidæ).
Anonymous 1897 A, 151.
Arldt, T. 1907 A, 238 ("stylinodontiden").
1907 D, 683.
1912 A, 700.
Baird, S. F. 1876 A, 337.
Beddard, F. E. 1902 A, 191.
Delafontaine, M. 1875 A, 170 ("stylinodontes").
Gregory, W. K. 1922 A, 51, 61 (Stylodontidæ).
Lane, H. H. 1909 A, 25 (Styliodontidæ).
1910 A, 914.
Matthew, W. D. 1906 B, 361.
1909 C, 92, 94, 97, 102.
1914 B, 387.
1918 H, 610 ("stylinodonts").
1921 D, 212, 214.
Osborn, H. F. 1909 D, 34, 40.
Palacký, J. 1902 A, 3 ("calamadonten").
Palmer, T. S. 1904 A, 771, 821.
Schlosser, M. 1899 U, 463.
Trouessart, E. L. 1897 B, 87.
1905 A, 824.
Wallace, A. R. 1876 A, I, 139.
Weber, M. 1904 A, 468.
Weber and Abel 1928 A, 125, 236.
Winge, H. 1917 A, 91, 104, 107, 181 (Stylinodontidæ); 92, 108 (Stylinodontini); 99, 100, 107 (Onychodectini).
1923 A, 123, 133, 134, 135, 136, 198, 212 (Stylinodontidæ, Stylinodontinæ, Conoryctini, Onychodectidæ, Onychodectini).
Zittel and Schlosser 1911 A, 414 (Stylinodontinæ).
1923 A, 497 (Stylinodontinæ).

WORTMANIA Hay. Type *Hemiganus otariidens* Cope.

Hay, O. P. 1902 A, 573.
Abel, O. 1913 B, 725 (Hemiganus).
1914 A, 101 (Hemiganus).
1919 A, 773.
Ameghino, F. 1906 A, 284 (Hemiganus).
1906 E, 230.
Anonymous 1897 A, 151 (Hemiganus).
Haug, E. 1911 A, 1527.
Matthew, W. D. 1909 C, 102.
1915 K, fig. 37.
1918 H, 609.
1924 E, 749.
1928 B, 957.
Osborn, H. F. 1907 G, 153, fig. 120 (Hemiganus).
1910 B, 540.
Palmer, T. S. 1904 A, 318, 821 (Hemiganus); 709, 821 (Wortmania).
Weber, M. 1904 A, 468 (Hemiganus).
Weber and Abel 1928 A, 236 (Hemiganus); 237 (Wortmania).
Winge, H. 1917 A, 106 (Hemiganus).
Zittel and Schlosser 1911 A, 414 (Hemiganus).
1923 A, 497 (Hemiganus).

Wortmania otariidens (Cope).

Hay, O. P. 1902 A, 573.
Beddard, F. E. 1902 A, 191 (Hemiganus).
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Weber, M. 1904 A, 408, fig. 358 (Hemiganus).
Weber and Abel 1928 A, 236, fig. 151 (Hemiganus).
Paleocene (Puerco); New Mexico.

PSITTACOTHERIUM Cope. Type *P. multifragum* Cope.

Hay, O. P. 1902 A, 574.
Abel, O. 1913 B, 725.
1914 A, 101.
1919 A, 773.
Ameghino, F. 1906 E, 230.
Anonymous 1897 A, 151.
Beddard, F. E. 1902 A, 191.
Granger, W. 1917 A.
Gregory, W. K. 1920 A, 166.
Haug, E. 1911 A, 1528.
Loomis, F. B. 1922 A, 62.
Matthew, W. D. 1909 C, 102.
1915 K, fig. 37.
1924 E, 749.
1928 B, 957.
Osborn, H. F. 1905 I, 97.
1907 G, 154, figs. 121-123.
1910 B, 109, 540.
Palmer, T. S. 1904 A, 594, 821.
Scharff, R. F. 1911 A, 244.
Schlosser, M. 1898 B, 361.
1899 U, 461, 466.
Seeley, H. G. 1886 A, 415.
Terra, P. 1911 A, 263.
Tims, H. W. M. 1901 A, 284.
Trouessart, E. L. 1897 B, 86.
1905 A, 824.
Weber and Abel 1928 A, 236, 238.
Winge, H. 1917 A, 106, 108.
1923 A, 135, 212.
Zittel and Schlosser 1911 A, 414.
1923 A, 497.

Psittacotherium multifragum Cope.

Hay, O. P. 1902 A, 574.
Abel, O. 1913 B, 726, fig. 31.
1914 A, 101, fig. 61.
1919 A, 774, fig. 579.
1920 A, 427, fig. 647.
Beddard, F. E. 1902 A, 191.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.

Schlosser, M. 1898 B, 367.
1899 U, 461.
Trouessart, E. L. 1905 A, 824.
Zittel and Schlosser 1911 A, 414, fig. 576.
1923 A, 498, fig. 616.
Paleocene (Torrejon); New Mexico.

Psittacotherium sp. indet.

Gidley, J. W. 1924 B, 47. Eocene (Wasatch); Colorado.
Lull, R. S. 1915 D, 326. Paleocene (Fort Union); Montana.
Reeside, J. B. 1924 A, 47. Eocene (Wasatch); Colorado.

CALAMODON Cope. Type *C. simplex* Cope.

Hay, O. P. 1902 A, 574.
Abel, O. 1913 B, 725, 726.
1914 A, 101.
Ameghino, F. 1885 A, 154.
1906 E, 230.
Anonymous 1897 A, 151.
Baird, S. F. 1876 A, 305.
Beddard, F. E. 1902 A, 193.
Depéret, C. 1905 C, 703.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
1915 K, fig. 37.
1928 B, 977.
Osborn, H. F. 1898 V, 206.
1907 G, 155, figs. 124, 125.
1909 D, 40.
1910 B, 125, 132, 140, 540.
1912 G, 236, fig. 3.
Palacký, J. 1902 A, 3.
Schlosser, M. 1899 U, 462, 467.
Scott, W. B. 1913 A, 274.
Stehlin, H. G. 1916 B, 1435.
Steinmann, G. 1907 A, 478.
Terra, P. 1911 A, 263.
Tims, H. W. M. 1901 A, 284.
Trouessart, E. L. 1905 A, 824.
Wallace, A. R. 1876 A, i, 139.
Weber, M. 1904 A, 468.
Weber and Abel 1928 A, 236, 237.
Winge, H. 1917 A, 107.
1923 A, 136, 212.
Wortman, J. L. 1903 A, xv, 431.
Zittel and Schlosser 1911 A, 414.
1923 A, 497, 666.

Calamodon arcamœnus Cope.

Hay, O. P. 1902 A, 574.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 26.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico.

Calamodon novomehicanus Cope.

Hay, O. P. 1902 A, 575 (Ectoganus).
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 27 (Calamodon); 35 (Ectagonus).
Reeside, J. B. 1924 A, 46.
Trouessart, E. L. 1905 A, 825 (Ectoganus).
Lower Eocene (Wasatch); New Mexico.

Calamodon simplex Cope.

Hay, O. P. 1902 A, 574.
Abel, O. 1914 A, 101, fig. 62.
Cope, E. D. 1891 N, 74.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 27.
Reeside, J. B. 1924 A, 46.
Schlosser, M. 1899 U, 463.
Stehlin, H. G. 1916 B, 1448.
Trouessart, E. L. 1905 A, 824.
Weber, M. 1904 A, 468, figs. 356, 357.
Weber and Abel 1928 A, 236, fig. 150.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Calamodon sp. indet.

Douglass, E. 1908 D, 22, pl. ii, figs. 14-16 (This genus?). Paleocene (Fort Union); Montana.
Merrill, G. P. 1907 A, 27. Eocene (Wasatch); New Mexico.

DRYPTODON Marsh. Type *D. crassus* Marsh.

Hay, O. P. 1902 A, 575.
Haug, E. 1911 A, 1528.
Hoernes, R. 1886 A, 664.
Matthew, W. D. 1909 C, 102.
Palmer, T. S. 1904 A, 246, 821.
Schlosser, M. 1899 U, 463.
Zittel and Schlosser 1911 A, 414 (Syn. of Calamodon).
1923 A, 497 (Syn. of Calamodon).

Dryptodon crassus Marsh.

Hay, O. P. 1902 A, 575.
Matthew, W. D. 1909 C, 94.
Trouessart, E. L. 1905 A, 825.
Lower Eocene (Wasatch?); New Mexico.

STYLINODON Marsh. Type *S. mirus* Marsh.

Hay, O. P. 1902 A, 574.
Abel, O. 1913 B, 726.
Ameghino, F. 1906 E, 230.
Anonymous 1897 A, 151.
Beddard, F. E. 1902 A, 193.
Gaudry, A. 1906 B, 124.
Gregory, W. K. 1922 A, 42 (Stylodon).
Haug, E. 1911 A, 1528.

Matthew, W. D. 1909 C, 102.
1915 K, fig. 37.
1922 A, xiii (Stylodon).
1928 B, 977.
Osborn, H. F. 1907 G, 156, fig. 126.
1909 D, 44-46, 52.
1910 B, 133, 155, 540.
Palmer, T. S. 1904 A, 650, 821.

Schlosser, M. 1899 U, 461, 466.
Scott, W. B. 1913 A, 274.
Terra, P. 1911 A, 263.
Trouessart, E. L. 1905 A, 824.
Weber, M. 1904 A, 468.
Winge, H. 1917 A, 107, 108.
Zittel and Schlosser 1911 A, 415 (Stylonodon).
1923 A, 498, 666, 667.

Stylinodon cylindrifer (Cope).

Hay, O. P. 1902 A, 575.
Beddard, F. E. 1902 A, 193.
Matthew, W. D. 1909 C, 94.
Trouessart, E. L. 1905 A, 824.
Lower Eocene (Wind River); Wyoming.

Stylinodon mirus Marsh.

Hay, O. P. 1902 A, 575.
Matthew, W. D. 1909 C, 97.
Schlosser, M. 1899 U, 461.
Trouessart, E. L. 1905 A, 824.
Middle Eocene (Bridger); Wyoming.

ECTOGANUS Cope. Type *E. gliriformis* Cope.

Hay, O. P. 1902 A, 575.
Ameghino, F. 1906 E, 230.
Cope, E. D. 1875 Y, 447.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
Palmer, T. S. 1904 A, 251, 821.
Schlosser, M. 1899 U, 461, 463.

Ectoganus gliriformis Cope.

Hay, O. P. 1902 A, 575.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 35.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico.

Order XENARTHRA Cope.

Unless otherwise indicated the authors, as cited, use the name Edentata for this Order.

Cope, E. D. 1889 P, 657 (Xenarthra).
Hay, O. P. 1902 A, 571 (Bruta); 575 (Xenarthra).
Abel, O. 1901 A, 28 ("édentés").
1901 B, 315 ("edentaten").
1910 B, (186) (Xenarthra).
1912 F, 261, 294, 368, 562, 708 (Xenarthra).
1913 B, 725 (Xenarthra).
1914 A, 99 (Xenarthra).
1919 A, 772 (Xenarthra).
1920 A, 425 (Xenarthra).
1921 A, 188, 281, 299 (Xenarthra).
1922 C, 292 ("xenarthren").
1926 B, 237 (Xenarthra).
Agassiz, L. 1844 D, 137.
Allen, J. A. 1913 B, 454.
Ameghino, F. 1889 B, 280.
1902 A, 166 (Xenarthra).
1905 A, 47 ("edentados").
1906 D, 90 (Xenarthra).
1906 E, 175 ("édentés"); 241 (Xenarthra).
1907 A, 120 ("edentados").
1909 A, 1 ("edentados").
1911 A, 212, 221 ("edentaten").
Anonymous 1897 A, 150.
Anthony, R. 1912 A ("paresseux").
Arldt, T. 1907 A, 243.
1907 B, 455 ("edentaten").
1907 C, 677 ("edentaten").
1907 D, 652 (Edentata); 688 (Xenarthra).
1911 A, 212, 221 (Edentata); 221 ("xenarthren").
Ballowitz, E. 1892 A, 133 ("edentaten").
Bardeleben, K. 1885 B, 85 ("edentaten").
1889 B, 259 ("edentaten").
1904 A, 111 ("edentaten").
1906 A, 140 ("edentaten").
Bardenfleth, K. S. 1913 A, 69.
Bayer, F. 1897 A, 147 ("édentés").
Beddard, F. E. 1902 A, 161 (Edentata); 166 (Paratheria).
Bensley, B. A. 1902 A, 4.
Bertelli, D. 1909 A, 161 ("sdentati").
Beyer, H. 1908 A, 90 ("edentaten").
Black, N. 1900 A, 9.
Blatschke, F. 1904 A, 151 ("edentaten").
Bluntschli, H. 1912 B, 390 ("edentaten").
1913 A, 42 ("edentaten").
Boas, J. E. V. 1914 B, 577 ("edentaten").
Bonsdorff, E. J. 1871 A, 318.
Boule and Thevenin 1920 A, 204 (Xenarthra, "édentés").
Branca, W. 1908 B, 44.
Broom, R. 1897 B, 252.
1897 C, 279 ("edentates").
1902 D, 549.
1903 I, 549.
1915 A, 162.
Carus, V. 1875 A, 172 (Bruta).
Carus and Engelmann 1861 A, 1298 (Bruta).
Case, E. C. 1898 C, 826.
Chandler, A. C. 1914 B, 139 ("edentates").
Clark and Sonntag 1926 A, 453, 463 (Edentata); 468, 471 (Xenarthra).
Cleland, J. 1863 B, 302.
Cope, E. D. 1885 BB, 72.
1891 N, 67, 70, 90.
Cuvier, F. 1825 A, 191 ("édentés").
Cuvier, G. 1825 A, v, 1, 67-145 ("édentés").
Dana, J. D. 1863 A, 1 ("edentates").
Dependorf, T. 1907 C, 110 ("edentaten").
Dijkstra, O. H. 1923 A, 303.
Dollo, L. 1889 E, 187 ("édentés").
Doran, A. H. G. 1878 A, 470.
Eggeling, H. 1904 A, 87 ("edentaten").
Eimer, G. H. T. 1901 A, 60 ("edentaten"); 258 ("faultiere").
Elliot, D. G. 1901 A, 4.
Fischer, J. B. 1829 A, 386.
Flower, W. H. 1882 A, 358.
Frassetto, F. 1915 A, 79 ("sdentati").
Frey, H. 1911 A, 409.
Fuchs, H. 1910 A, 59 ("edentaten").
Fürbringer, M. 1904 A ("edentaten").
Gadow, H. 1896 A, 48.
1912 A, 821 ("edentates").
1913 A, 120 ("edentates").
Gaudry, A. 1906 B, 110 ("édentés").

Gaupp, E. 1911 B, 101 (Xenarthra).
1911 D, 621 ("edentaten"); 625 (Xenarthra).
1913 A, 63 (Xenarthra).
Gegenbaur, C. 1888 A, 396 ("edentaten").
Gervais, P. 1859 A, 254 ("édentés").
Gessner, I. 1921 A, 271 ("edentaten").
Giebel, C. T. 1855 A, 59.
1883 A ("edentaten").
Gill, T. 1886 A, 46.
1910 A, 56 (Xenarthra).
Goodsir, J. 1857 A.
Gottlieb, H. 1914 A, 187 (Xenarthra).
Gregory, W. K. 1910 A (Edentata); 339, 340 (Xenarthra).
1912 F, 294.
1920 A, 168, 240.
1921 A, 69.
Grevé, C. 1912 A, 77 ("edentaten").
Haeckel, E. 1868 A, 479 ("edentaten").
1873 A, 544.
Hasse and Schwarck 1870 A, 122.
Hay, O. P. 1912 B, 9 ("edentates").
1912 D, 554 (Edentata, Xenarthra).
1914 A, 103.
1924 D, 385.
1927 E, 77 ("edentates").
Heilprin, A. 1887 A, 336.
Hilzheimer, M. 1913 A, 569 (Xenarthra).
Hogben, L. T. 1919 A, 74 (Xenarthra).
Howes, G. B. 1891 A, 153.
1893 C, 591.
Huxley, T. H. 1863 D, 233.
1863 E, 555.
1868 C, 314.
1880 E, 462.
Ihde, — 1912 A, 265 ("edentaten").
Ihering, H. 1909 A, 301 (Bruta).
Jaekel, O. 1909 B, 611 (Paratheria).
1909 C, 706 ("edentaten").
1910 D, 113, 122 (Paratheria).
1911 A, 180 (Paratheria).
Kampfen, P. N. van 1905 A, 473 (Xenarthra).
Kingsley, J. S. 1925 A, 207 (Xenarthra); 207, 295 (Edentata).
Köstlin, O. 1844 A ("zahnlosen").
Koken, E. 1893 B, 486, 487 ("edentaten").
Kükenthal, W. 1913 A, 679 (Xenarthra).
Lane, H. H. 1909 A, 25 (Edentata, Xenarthra).
1910 A, 914 (Edentata, Xenarthra).
Lataste, F. 1887 A, 268 ("édentés").
Lavocat, A. 1885 A, 46 ("édentés").
Leche, W. 1887 A.
Leenhardt, L. E. E. 1906 A, 176 ("édentés").
Lehman-Nitsche 1900 A, 103 ("edentaten").
Lobley, J. L. 1908 A, 196.
Loomis, F. B. 1921 A, 190 (Xenarthra).
Lubosch, W. 1908 B.
1911 B, 742 ("edentaten").
1926 A, 109 ("edentaten").
Lull, R. S. 1917 B, 308, 338.
Lydekker, R. 1893 F, 172 ("edentates").
1902 B, 375 ("edentates").
Major, C. J. F. 1899 B, 62.
Martins, C. 1857 A, 81 ("édentés").
Matthew, W. D. 1904 D, 815.
1909 C, 97, 102, 114, 119, 120.
1909 D, 301.
1910 G, 158, 159.
Matthew, W. D. 1912 F, 301.
1915 A, 259, figs. 29, 30 (Xenarthra); 187, 259, fig. 29 (Edentata).
1915 K, 468.
1918 H, 610, 620 ("edentate").
1928 B, 948, 965, 977.
Matthew and Cook 1909 A, 383.
1909 B, 197, 366.
Mead, C. S. 1906 A, 480 (Xenarthra).
Meckel, J. F. 1809 A, tab. i (Edentula, Edentata).
1825 A ("zahnlosen").
Menegaux, A. 1909 A, 277, pls. iii-vi ("édentés").
Mitchell, P. C. 1905 A, 437 (Xenarthra).
Mysberg, W. A. 1917 A, 652 (Xenarthra).
Osborn, H. F. 1897 I, 107 ("edentates").
1899 J, 415.
1905 H, 207, fig. 2.
1905 I, 99.
1907 G, 13, 151.
1909 D, 59, 125.
1910 B, 78, 174, 289, 539, 540.
1917 B, 236, 237, 259.
1925 B, 18.
Owen, R. 1843 C, 353.
1845 E, 120 (Bruta).
1851 D, 350 (Bruta, Edentata).
1857 E (Bruta).
1858 A, 23 (Bruta).
Palacký, J. 1902 A, 1 (Edentata); 4 (Xenarthra).
Pander and Alton 1825 A, 2 ("zahnlosenthiere").
Parker and Haswell 1897 A, 449.
Paulli, S. 1900 B, 506, 537, figs. 20-25.
Perna, G. 1906 A, 123.
Pfeiffer, H. 1854 A, 14 ("faulthier").
Pictet, F. J. 1853 A, 260 ("édentés").
Poche, F. 1908 A, 567 (Bradypus).
1911 B (Bradypodidæ).
Puccioni, N. 1908 A, 41.
Rehs, J. 1914 A, 39 (Xenarthra); 2, 39 (Edentata).
Retzius, A. 1849 A, 650.
Reynolds, S. H. 1897 A, 351, 539.
Ridewood, W. G. 1901 A, 393.
Schapiro, B. 1913 A, 220.
Scharff, R. F. 1911 A, 152, 234, 358, 401.
Schlosser, M. 1898 D, 121 ("edentaten").
1899 I, 347 ("edentaten").
1899 U, 462, 466 (Xenarthra).
1904 A ("edentaten").
1911 A, 165.
Schmidt, O. 1886 A, 110.
Schulthess, B. 1920 A, 1-119 (Xenarthra).
Scott, W. B. 1896 C, 308.
1903 A, 900.
1905 A, 242.
1913 A.
1916 A, 117 ("edentates").
1928 B, 254.
Seeley, H. G. 1872 A, 275 ("edentates").
1878 A, 225 ("edentates").
Sefve, I. 1915 A, 77 (Xenarthra).
Serres, M. 1852 A, 145 ("édentés").
Simpson, G. G. 1927 H, 293 (Xenarthra).
Sinclair, W. J. 1905 D, 1, 361, 493.
1906 A, 65, figs. 1-3 ("edentate?").
Smith, G. E. 1903 B, 48.
1912 A, 425.

Stehlin, H. G. 1916 B, 1502 (Xenarthra).
Steinmann, G. 1907 A, 474.
1909 A, 67 ("edentaten").
1910 A, 102 ("edentaten").
Stromer, E. 1903 C, 63.
1908 B, 168.
1912 A, 172 (Xenarthra); 243 (Edentata).
Taschenberg, O. 1899 A, 4426.
Terra, P. 1911 A, 258 (Edentata); 260 (Xenarthra).
Thacker, A. G. 1922 A, 601, 603.
Thomas, O. 1888 A, 458.
Tims, H. W. M. 1914 A, 378 ("edentates").
Tornier, G. 1891 A, 185 ("xenarthren").
1894 B, 104 ("faulthiere").
Tredgold, A. F. 1897 A, 295.
Trouessart, E. L. 1897 B, 87 (Xenarthra).
1905 A, 788 (Edentata, Xenarthra).
Turner, H. N. 1847 A, 110.
Vallois, H. V. 1921 B, 975 ("édentés").
Van den Broeck, A. J. P. 1912 A, 784 (Xenarthra).
Vicq-d'Azyr, F. 1792 A, ciii (Edentati).
1819 A, 47 (Edentati).
Wagner, R. 1843 A, 12.
Wallace, A. R. 1876 A, II, 244.
Waterhouse, G. R. 1842 A, 344.
Watson, D. M. S. 1916 A, 361.
Weber, M. 1904 A, 412, 420, 430 (Xenarthra, Effodientia); 412 (Edentata).
Weber and Abel 1928 A, 171, 187, 215, 898 (Xenarthra).
Weber and Burlet 1927 A (Xenarthra).
Wegner, R. N. 1922 A, 418 (Xenarthra).
Winge, H. 1915 A, 219 (Edentata, Xenarthra).
1923 A, 282, 289, 329 (Xenarthra); 274, 328 (Edentata).
Woodward, A. S. 1898 B, 277.
1904 D, 155.
1923 C, 70.
Wortman, J. L. 1901 C, 211.
1920 A, 15.
Zaaijer, T. 1894 A, 339.
Ziegler, H. E. 1901 A, 232.
Zittel and Schlosser 1911 A, 410 (Edentata); 413 (Xenarthra).
1923 A, 493 (Edentata); 496 (Xenarthra).

Suborder TARDIGRADA Macartney.

Macartney, J. 1802, Lectures Comp. Anat., I, table 1 (Includes Bradypus, Megatherium).
Abel, O. 1909 A, 2, 15 (Anicanodonta).
1912 F, 377 (Anicanodonta).
1913 B, 726 (Anicanodonta).
1914 A, 100, 103 (Anicanodonta).
1920 A, 427 (Anicanodonta).
Ameghino, F. 1889 A, 653, 1006 (Anicanodonta).
1893 A, 397 (Anicanodonta).
1906 D, 90 (Anicanodonta).
1909 A, 15, 24 (Anicanodonta).
1909 B, 109.
Burmeister, H. 1886 C, 67-125, with pls. (Tardigrada, Gravigrada).
Flower, W. H. 1883 A, 178 (Pilosa).
Gill, T. 1872 B, 24.
Gregory, W. K. 1910 A, 465 (Anicanodonta).
Haeckel, E. 1868 A, 479.
Hay, O. P. 1927 E, 77 ("ground sloths").
Illiger, C. 1811 A, 108.
Kingsley, J. S. 1925 A, 259 (Bradypus).
Matthew, W. D. 1928 B, 977 ("sloths").
Osborn, H. F. 1910 B, 540 (Pilosa).
Scott, W. B. 1913 A, 186, 591, 610.
1928 B, 261 (Gravigrada).
Weber, M. 1904 A, 458 (Anicanodonta).
Weber and Abel 1928 A, 217, 224, 229 (Anicanodonta).
Winge, H. 1923 A, 282, 310, 326 (Bradypodidæ).
Zittel and Schlosser 1911 A, 413 (Anicanodonta).
1923 A, 496 (Anicanodonta); 497, 498 (Gravigrada).

Superfamily MEGATHERIOIDÆ, new form.

Unless otherwise indicated the authors, as quoted, use for this group the name Gravigrada.

Abel, O. 1912 F, 377, 675.
1914 A, 103.
1919 A, 775 (Gravigradidæ).
Ameghino, F. 1885 A, 111.
1893 A, 397.
1900 A, 199.
1906 D, 91.
1906 E, 231, 242.
1909 A, 15.
Arldt, T. 1907 A, 238, 243.
1907 B, 455 ("gravigraden").
1907 C, 677.
1907 D, 29, 144.
Beddard, F. E. 1902 A, 179.
Burmeister, H. 1868 B, 759 ("gravigraden").
1879 B, 279.
1881 A, 374 ("gravigraden").
1886 B, 1131 ("gravigraden").
1887 A, 861.
Carus, V. 1875 A, 178.
Case, E. C. 1898 C, 826.
Gray, J. E. 1821 A, 305 (Oligodontæ).
Hay, O. P. 1912 D, 555.
1914 A, 105.
Jaekel, O. 1909 C, 708.
1911 A, 225 (Gravigradi).
Matthew, W. D. 1912 F, 302 ("ground sloths").
1913 B, 291 ("ground sloths").
1915 A, 204 ("ground sloths").
1919 B, 176 ("ground sloths").
Miller, L. H. 1915 B, 75 ("ground sloths").
Osborn, H. F. 1906 C, 776.
1909 D, 126.
Owen, R. 1843 C, 359.
Pictet, F. J. 1853 A, 263 ("Gavigrades").
Scharff, R. F. 1911 A, 399.
Schulthess, B. 1920 A, 56, 71 ("gravigraden").
Scott, W. B. 1903 A, 901.
1905 A, 242.
1905 B, 494.
1913 A, 205, 598, 681.
1916 A, 116 ("ground sloths").
Sinclair, W. J. 1905 D, 161, 363, 495.

Terra, P. 1911 A, 262.
Weber and Abel 1928 A, 224, 229 (Gravigrada).
Winge, H. 1923 A, 329 (Gravigrada).
Zittel and Schlosser 1911 A, 415.

MEGATHERIIDÆ Flower, W. H.

Flower, W. H. 1882 A, 360.
Hay, O. P. 1902 A, 575.
Ameghino, F. 1889 A, 1018 (Megatheridæ).
1897 B, 260 (Megatheria).
1904 C, 131.
Arldt, T. 1907 A, 243 (Megatheridæ).
1907 D, 664 (Megatheridæ).
1912 A, 699 (Megatheridæ).
Beddard, F. E. 1902 A, 183.
Cope, E. D. 1880 U, 152.
1891 N, 70.
Dall and Harris 1892 A, 284.
Gill, T. 1886 A, 65.
Gray, J. E. 1821 A, 305 (Megatheriadæ).
Hay, O. P. 1923 A, 5, 312.
Hoernes, R. 1886 A, 663 (Megatheridæ).
Kraglievich, L. 1925 C, 244.
1926 B, 22.
Lane, H. H. 1909 A, 25.
1910 A, 914.
Osborn, H. F. 1910 B, 541.
Palmer, T. S. 1904 A, 819.
Reynolds, S. H. 1897 A, 546.
Scott, W. B. 1905 B, 495.
1913 A, 591, 598, 607.
Sinclair, W. J. 1905 D, 495.
Thomas, O. 1888 A, 458.
Trouessart, E. L. 1905 A, 795.
Weber and Abel 1928 A, 224, 229 (Gravigrada).
Winge, H. 1923 A, 282, 310 (Megatheriini).
Woodward, A. S. 1898 B, 278.
Zittel and Schlosser 1911 A, 415 (Megatheriinæ).
1923 A, 499 (Megatheriinæ).

MEGATHERIINÆ Gill.

Gill, T. 1872 B, 24.
Abel, O. 1913 B, 726.
1919 A, 778.
Ameghino and Kraglievich 1921 A, 141 (Megatheridæ).
Arldt, T. 1912 A, 744.
Gervais, P. 1855 A, 52 ("mégathéridés").
Giebel, C. G. 1883 A ("megatherien").
Stock, C. 1925 A, 49.
Trouessart, E. L. 1905 A, 795.
Weber and Abel 1928 A, 224, 229, 232.
Winge, H. 1915 A, 220, 244.
Zittel and Schlosser 1911 A, 415.
1923 A, 499.

MEGATHERIUM Cuvier. Type *M. americanum* Cuvier.

Hay, O. P. 1902 A, 576.
Abel, O. 1912 F, 261, 373, 684.
1914 A, 108.
1914 C, 352.
1921 A, 284.
1925 A, 13, fig. 10.
Ameghino, F. 1883 B, 92.
1885 A, 111, 204.
1889 A, 1018.
1904 C, 131.
1905 A, 55.
1907 A, 89, fig. 9.
1912 A, 60.
1912 B, 178.
Ameghino and Kraglievich 1921 A, 135, seq., 5 pls.
Arldt, T. 1907 D, 29.
Beddard, F. E. 1902 A, 183.
Boule, M. 1891 A, 38.
1902 A, 914, fig. 27.
1923 A, 399.
Boule and Thevenin 1920 A, 213.
Bronn, H. G. 1838 A, 1247, pl. xliv, fig. 4.
1848 A, 710.
1849 A, 713.
Bru, J. B. 1804 A, 387, pls. xxiv, xxv.
Buckland, F. T. 1838 A, 104.
Burmeister, H. 1881 A, 375.
1886 B, 1132.
1887 A, 862.
Cabrera, A. 1926 A, 388.
1928 A, 441, pls. i, ii, figs. 1-6.
Carus and Engelmann 1861 A, 1767.
Case, E. C. 1898 C, 826.
Clift, W. 1832 A, 234.
Cope, E. D. 1880 U, 158.
Cuvier, G. 1825 A, v, 1, 174-192, pl. xvi.
Dana, J. D. 1863 A, 2.
1863 C, 338 ("megathere").
Desmarest, A. G. 1822 A, 365.
Diener, C. 1912 A, 216.
Falconer, H. 1863 A, 62.
Fischer, J. B. 1829 A, 388.
Frech and Geinitz 1903 A, 34.
Frets, G. P. 1910 A, 564.
Gervais, P. 1855 A, 52.
1873 B, 22, seq.
Gervais and Ameghino 1880 A, 132.
Giebel, C. G. 1878 C, 854.
1855 A, 61.
1883 A, pl. xlv.
Grandidier, G. 1912 A, 401.
Gregory, W. K. 1915 D, 370, fig. 12.
Hay, O. P. 1910 D, 371, 372.
1912 B, 9.
1918 B, 12, 13, 14.
1919 A, 311.
1926 E, 388.
Heilprin, A. 1887 A, 338.
Hoernes, R. 1886 A, 663.
Holmes, F. S. 1870 A, 17, 31.
Humphreys, J. 1908 A, 8.
Hutchinson, H. N. 1910 A, 283, pls. l, li.
Huxley, T. H. 1865 B, 42.
Knipe, H. R. 1912 A, 185, fig.
Kraglievich, L. 1925 B, 226.
1925 C, 244.
1926 B, 16, fig. 1.
1926 D, 173.
Lankester, E. R. 1905 A, 7, 172, figs. 3, 121.

Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 288.
Lobley, J. L. 1908 A, 213, 214, 217.
Lönnberg, E. 1910 A, 58.
Lund, P. W. 1838 A, 12.
Lydekker, R. 1894 B, 30.
Mantell, G. A. 1850 A, 165, pl. lxxiii, fig. 1.
Matthew, W. D. 1910 G, 159.
1911 B, 113.
1915 A, 262.
1915 K, fig. 37.
1924 E, 748.
Meckel, J. F. 1825 A.
Mitchill, S. 1832 A, 905.
Mivart, St. G. 1879 B, 511.
Murchison, R. I. 1843 A, 133.
1843 B, 147.
Osborn, H. F. 1906 C, 851.
1910 B, 466, 472, 541.
Owen, R. 1839 F, 157.
1843 C, 359.
1845 B, 338, pls. lxxxiii, lxxxiv.
1851 D, 350.
1860 E, 390, figs.
1866 B, 307, figs. 191, 274, 279.
1868 A, 892.
1879 C, 581.
Palacký, J. 1902 A, 2.
Palmer, T. S. 1904 A, 406, 819.
Pander and Alton 1821 A, pls. i-v (Bradypus).
Parish, W. 1832 A, 233.
Perkins, H. C. 1871 A, 763.
Perrier, E. 1920 A, 365.
Philippi, R. A. 1893 A, 90, figs. 5-7.
Pictet, F. J. 1853 A, 264, pl. vii, figs. 1-4.
Reinhardt, J. 1878 A.
Reynolds, S. H. 1897 A, 546.
Roth, S. 1908 A, 132, 138.
1911 A, 191.
Scharff, R. F. 1911 A, 352.
Schlosser, M. 1899 U, 462, 467.
Schmidt, O. 1886 A, 114, fig. 8.
Schuchert, C. 1915 A, 958, fig. 514.
Schulthess, B. 1920 A, 74, 80, 99, 104, pl. v; text-figs. 10, 40.
Scott, W. B. 1905 B, 495.
1913 A, 685.
1916 A, 119.
Sellards, E. H. 1914 A, 162.
Serres, M. 1852 A, 119.
1852 B, 183.
Sinclair, W. J. 1905 D, 495.
Southall, J. C. 1875 A, 326.
Steinmann, G. 1909 A, 76, fig. 12.
Stock, C. 1917 C, 275.
1925 A, *passim*.
Tomes, C. S. 1878 A, 35.
Trouessart, E. L. 1905 A, 796.
Troxell, E. L. 1925 D, 613.
Vertuch, C. 1803 A, 530, pl. xii.
Wallace, A. R. 1876 A, I, 130, 145, 147; II, 245.
Ward, H. A. 1866 A, 11, figs.
Weber, M. 1904 A, 461.
Weber and Burlet 1927 A, 140, fig. 105.
Wilder, B. 1872 B, 321.
Winge, H. 1923 A, 314, 317, 326.
Woodward, A. S. 1899 D, 354.
1900 G, 67.
1923 C, 70, fig. 67.
Wright, G. F. 1911 B, 436.
Zittel and Schlosser 1911 A, 415.
1923 A, 499, 679, 681, fig. 617.

Megatherium mirabile Leidy.

Hay, O. P. 1902 A, 576 (M. americanum, M. mirabile).
Allen, G. M. 1926 A, 449.
Anonymous 1916 B, 480 ("megatherium").
Cuvier, G. 1825 A, v, 2, 519 ("Megatherium").
Falconer, H. 1863 A, 61.
Foster, J. W. 1869 A, 238 ("megatherium").
1873 A, 71 ("megatherium").
Freudenberg, W. 1921 A, 140 (M. americanum. This species?).
1922 A, 4 (M. americanum. This species?).
Gervais, P. 1859 A, 365.
Gidley, J. W. 1911 A, 436 (M. americanum?).
Godman, J. D. 1860 A, II, 36-46 (M. cuvieri).
Haug, E. 1911 A, 1886 ("Megatherium").
Hay, O. P. 1918 A, 371 ("Megatherium").
1919 D, 364.
1923 A, 121, 490.
1924 B, 260, 262 ("Megatherium").
1924 D, 380.
1926 C, 1, 2.
1927 D, 286.
1928 B, 238 ("Megatherium").
1928 C, 426.
Holmes, F. S. 1859 A, 184 ("megatherium").
1860 A, IV, VI, VII ("megatherium").
Kampfen, P. N. 1905 A, 479.
Leidy, J. 1859 J, 181 ("megatherium").
1892 A, 129 (Megatherium sp.).
Lyell, C. 1845 B, I, 164 ("Megatherium").
1847 C, lxxxi ("megatherium").
1855 A, I, 347 ("Megatherium"); II, 576 ("Megatherium").
Matson and Clapp 1909 A, 136 (Megatherium sp. This species?).
Matthew, W. D. 1917 E, 212 ("Megatherium." This species?).
Merrill, G. P. 1907 A, 46.
Murchison, R. I. 1843 B, 132 ("megatherium").
Osborn, H. F. 1910 B, 455 ("Megatherium").
Palacký, J. 1902 A, 2.
Rogers, H. D. 1844 A, 258 ("megatherium").
Schmidt, E. 1872 A, 250 ("megatherium").
Scott, W. B. 1913 A, 220, 599, fig. 122 (M. americanum).
Stock, C. 1917 A, 142 (M. americanum).
Veatch, A. C. 1906 A, 51 ("Megatherium").

Pleistocene (Early); Georgia, South Carolina, Florida, Texas, New Jersey.

Megatherium sp. indet.

Cahn, A. R. 1922 A, 23.
Hay, O. P. 1923 A, 121. Pleistocene; Florida.
Leidy, J. 1886 D, 275 (Nicaragua).
Merriam, J. C. 1917 A, 439. Pliocene (Alachua or Bone Valley); Florida.
Spencer, J. W. 1895 A, 136.

NOTHROTHERIINÆ.

Kraglievich, L. 1925 B, 215, 228 (Nothrotherinæ).
Kraglievich, L. 1925 D, 177 (Nothrotherinæ).

PRONOTHROTHERIUM Ameghino. Type *P. typicum* Ameghino.

Ameghino, F. 1907 A, 117.
Frick, C. 1921 A, 349.
Kraglievich, L. 1925 D, 179-183.
Rovereto, C. 1914 A, 234.
Stock, C. 1925 A, 21, 43, fig. 10.

Pronothrotherium sp. indet.

Stock, C. 1925 A, 21. (This genus?). Lower Pliocene (Eden); California.

NOTHROTHERIUM Lydekker. Type *Cœlodon maquinense* Lund.

Lydekker, R. 1889, in Nicholson and Lydekker 1889 A, 1299.
Abel, O. 1910 B, (186) (Nototherium).
Ameghino, F. 1886 B, 463 (Cœlodon).
    1889 A, 1009 (Cœlodon).
    1891 E, 250 (Cœlodon).
    1904 B, 30.
    1907 A, 74, figs. 5-8.
Beddard, F. E. 1902 A, 184.
Bronn, H. G. 1849 A, 713 (Cœlodon).
Burmeister, H. 1879 B, 325, 387 (Cœlodon).
    1881 A, 380 (Cœlodon).
    1885 A, 567, pl. v (Cœlodon).
    1886 A, 357 (Cœlodon).
    1886 B, 1127, fig. 1 (Cœlodon).
    1887 A, 857, figs. 1, 2 (Cœlodon).
Gervais, P. 1873 B, 23 (Cœlodon).
Gervais and Ameghino 1880 A, 140 (Cœlodon).
Hay, O. P. 1916 D, 121.
    1916 F, 24.
    1918 B, 12, 13.
    1919 A, 311.
Heilprin, A. 1887 A, 339 (Cœlodon).
Kampfen, P. N. 1905 A, 482, figs. 40, 41.
Kraglievich, L. 1925 B, 231.
    1925 D, 177.
    1926 D, 169, figs. 1-8.
Lund, P. W. 1838 A, 7 (Cœlodon).
    1839 B, 220 (Cœlodon).
    1841 A, 72, 85, 230 (Cœlodon).
    1842 A, 171 (Cœlodon); 197 (Megalonyx).
Lydekker, R. 1887 A, 113 (Cœlodon).
    1894 A, 93.
    1896 B, 107.
    1914 A, 637.
Matthew, W. D. 1915 A, 262.
    1918 H, 647.
Osborn, H. F. 1909 D, 88 (Nototherium).
    1925 D, 532.
Owen, R. 1842 D, 13, 170 (Cœlodon).
    1843 C, 361 (Cœlodon).
Palmer, T. S. 1904 A, 462, 819.
Pictet, F. J. 1853 A, 272 (Cœlodon).
Reinhardt, J. 1878 A, 259, pls. i-v (Cœlodon).
Schulthess, B. 1920 A, 48, 57, 78, 98, 102, 105; text-figs. 15, 16, 44.
Scott, W. B. 1905 B, 496.
    1913 A, 392.
Sinclair, W. J. 1905 D, 496.
Stock, C. 1913 A, 341.
    1917 A.
    1917 C, 275.
    1917 E, 233.
    1925 A, *passim.*
Trouessart, E. L. 1905 A, 802.
Weber, M. 1904 A, 433, 461, 463 (Cœlodon, Nothrotherium).
Weber and Abel 1928 A, 231, 232.
Winge, H. 1915 A, 136, 287, pls. xxiv, xxv (Cœlodus).
Woodward, A. S. 1902 A, 310 (Cœlodon).
Zittel, K. A. 1893 B, 133.
Zittel and Schlosser 1911 A, 416.
    1923 A, 499, 681.

Nothrotherium mexicanum Freudenberg.

Freudenberg, W. 1921 A, 140, pl. ii, fig. 3.
Stock, C. 1925 A, 9.
    Pleistocene (Early); Mexico.

Nothrotherium shastense Sinclair.

Sinclair, W. J. 1905 B, 153, pl. xxiii, figs. 1-5a, 8.
Abel, O. 1926 B, 237.
Freudenberg, W. 1921 A, 140 (N. chastense).
Hay, O. P. 1916 D, 116 (N. graciliceps).
    1927 D, 310 (N. shastense); 7 (N. graciliceps).
Kraglievich, L. 1925 B, 229, 232, 235, pl. vii, fig. 7.
    1925 D, 183.
    1926 D, 176, 179, 186.
Merriam and Stock 1925 A, 10, 11.
Osborn, H. F. 1925 D, 528, 531, 534, fig. .
Schulthess, B. 1920 A, 57 (N. shastense, N. graciliceps).
Stock, C. 1917 A, 139, 157, figs. 1-8 (N. graciliceps a syn.).
    1918 A, 492.
    1925 A, 30, 40, 113, pls. i, ii; iv-xvi, text-figs. 4-26, 31-43, 53, 54.
Swarth, H. S. 1915 A, 23 (N. graciliceps).
Wyman, L. E. 1922 A, 25, fig. 16.
    1927 A, 86 ("Nothrotherium").
    Pleistocene (Potter Creek, Samwel, and Hawver caves; La Brea); California.

Nothrotherium shastense hawveri Stock.

Stock, C. 1918 A, 492, figs. 11-32.
Hay, O. P. 1927 D, 4, 223.
Kraglievich, L. 1925 B, 232.
    1925 C, 251.
Stock, C. 1925 A, 98.
    Pleistocene (Hawver Cave); California.

Nothrotherium texanum Hay.

Hay, O. P. 1916 D, 116, pls. vi, vii.
    1915 C, 878 (Nothrotherium).

Hay, O. P. 1917 B, 14.
1924 D, 1, 234, 238.
1926 G, 131 ("Nothrotherium").
Kraglievich, L. 1925 D, 193.
1926 D, 176.
Lull, R. S. 1928 A, 23 (N. shastense?).
Stock, C. 1917 A, 138, 160.
1925 A, 8 ("Nothrotherium").
Turner, H. W. 1906 A, 275 ("ground-sloth." This species?).
Pleistocene (Early); Texas.

Nothrotherium sp. indet.

Frick, C. 1921 A, 349, figs. 56-57 ("Nothrotherium? or Pronothrotherium"). Pliocene (Eden); California.
Furlong, E. L. 1925 A, 144, 152. Pleistocene; Monterey, Nuevo Leon; Mexico.
Gidley, J. W. 1928 B, 14. Pleistocene; Oklahoma.
Hay, O. P. 1924 D, 2, 134, 249. Pleistocene; Texas.
1926 G, 127.
1927 D, 172, 214. Pleistocene; California.
Stock, C. 1913 A, 350, figs. 9-11 (This genus?). Pleistocene (San Pedro); California.
1925 A, 21 (This genus?); Lower Pliocene (Eden): Pleistocene (Cave); California.

MEGALONYCHINÆ Osborn.

Osborn, H. F. 1910 B, 541.
Unless otherwise indicated the authors, as quoted, use the family name Megalonychidæ.
Hay, O. P. 1902 A, 575 (Megatheriidæ, in part).
1913 B, 726 (Megalonychinæ).
Abel, O. 1914 A, 103 ("megalonychiden").
1919 A, 775 (Megalonichinæ).
Ameghino, F. 1889 A, 1018 (Megalonycidæ).
1893 A, 404.
1905 A, 57.
1907 A, 93.
1912 A, 55.
Arldt, T. 1907 D, 664.
1912 A, 698, 699, 744 (Megalonychinæ).
Beddard, F. E. 1902 A, 183.
Gervais, P. 1855 A, 44 ("mégalonycidés").
Hay, O. P. 1912 D, 556.
1914 A, 106.
Kraglievich, L. 1921 A, 21 (Megalonychidæ).
1926 B, 22 (Megalonychidæ).
Lane, H. H. 1909 A, 25.
1910 A, 914.
Matthew, W. D. 1909 C, 114, 119, 120.
1913 B, 291.
Palacký, J. 1902 A, 1 ("megalonychiden").
Scharff, R. F. 1922 A, 66 (Megalonichidæ).
Scott, W. B. 1905 B, 495.
1913 A, 592, 604, 609.
Sinclair, W. J. 1905 D, 178, 363, 495.
Stock, C. 1925 A, 6, 13, 14, 39, 110.
Trouessart, E. L. 1905 A, 790 (Megalonichidæ); 793 (Megalonychinæ).
Weber and Abel 1928 A, 224, 230.
Wegner, R. N. 1922 A, 457 (Megalonychinæ).
Zittel and Schlosser 1911 A, 416.
1923 A, 499.

SINCLAIRIA Ameghino. Type *S. oregoniana* Ameghino.

Ameghino, F. 1912 A, 55.
Matthew, W. D. 1924 C, 149.

Sinclairia oregoniana Ameghino.

Ameghino, F. 1912 A, 55.
Matthew, W. D. 1924 C, 149 ("megalonychid").
Rovereto, C. 1914 A, 21.
Sinclair, W. J. 1906 A, 65, text-figs. 1-3 ("edentate-like remains").
1915 A, 83, fig. 7 ("megalonychid").
Stock, C. 1925 A, 15.
Middle Miocene (Mascall) or Pliocene (Rattlesnake); Oregon.

MEGALONYX Jefferson. Type *M. jeffersonii* Desmarest.

Hay, O. P. 1902 A, 577.
Abel, O. 1912 F, 263.
1914 A, 104.
1919 A, 776, fig. 777.
1921 A, 284.
1926 B, 450.
Ameghino, F. 1885 A, 111.
1906 E, 233.
1912 B, 178.
Arldt, T. 1907 D, 118.
Baker, F. C. 1920 A, 464.
Beddard, F. E. 1902 A, 183.
Boule, M. 1891 A, 40.
1923 A, 399.
Bronn, H. G. 1849 A, 713.
Burmeister, H. 1881 A, 380.
1886 B, 1132.
1887 A, 861.
Carus and Engelmann 1861 A, 1767.
Case, E. C. 1898 C, 826.
Cope, E. D. 1880 U, 158.
1895 G, 596, 597.
Cuvier, G. 1825 A, v, 1, 159-173.
Depéret, C. 1892 A, 78.
1907 B.
Diener, C. 1912 A, 216.
Eastman, C. R. 1904 A, 890.
Falconer, H. 1863 A, 62.
Frech and Geinitz 1903 A, 34.
Furlong, E. L. 1907 A, 393.
Gervais, P. 1873 B. 32, seq.
Gidley, J. W. 1913, in Matson and Sanford 1913 A, 143.
Giebel, C. G. 1855 A, 60.
1855 C, 337.
1878 C, 854.
1883 A, 150.
Haug, E. 1911 A, 1706, 1886.
Hay, O. P. 1910 D, 371.
1912 B, 9.

Hay, O. P. 1912 D, 556.
1914 A, 106, text-fig. 3.
1916 E, 54.
1918 B, 10, seq.
1919 A, 311.
1919 D, 363, 375.
1923 A, 490.
1925 D, 242.
Heilprin, A. 1887 A, 339.
Hoernes, R. 1886 A, 663.
Holland, W. J. 1912 B, 749.
Hovey, H. C. 1891 A, 161.
1900 B, 20839.
Kraglievich, L. 1925 D, 177.
1926 B, 30.
1926 D, 175.
Lobley, J. L. 1908 A, 214.
Lull, R. S. 1917 B, 370.
Lund, P. W. 1838 A, 12.
1839 C, 20.
Lydekker, R. 1914 A, 637.
Lyell, C. 1845 B, II, 65 ("megalonyx").
Mantell, G. A. 1839 A, 154.
Matthew, W. D. 1913 B, 291.
1915 A, 262.
1918 I, 661.
1919 B, 164, 172.
1924 C, 70.
1924 E, 748.
Merriam, J. C. 1919 A, 531.
Miller, L. H. 1912 A, 74.
1915 B, 71.
Osborn, H. F. 1905 I, 108.
1909 D, 129.
1910 A, 214.
1910 B, 622.
1912 G, 251.
1918 A, 30.
1925 D, 532.
Owen, R. 1843 C, 359.
1851 D, 351 (Megalonix).
1866 B, 411.
Palmer, T. S. 1904 A, 405, 818.
Perkins, H. C. 1871 A, 763.
Perrier, E. 1920 A, 365.
Rafinesque, C. S. 1832 B, 111 (Aulaxodon, Megalonyx).
Rautenberg, M. 1906 A, 41, 48.
Reinhardt, J. 1878 A.
Scharff, R. F. 1911 A, 61, 152, 156, 235, 243, 358, 402.
Schlosser, M. 1899 O, 150.
1899 U, 462, 466.
Schulthess, B. 1920 A, 80, 98, 103.
Scott, W. B. 1905 B, 495.
1913 A, 206, 219, 221, 597, 604.
Serres, M. 1852 A, 119.
Shimek, B. 1910 A, 128 ("megalonyx").
Shumard, B. F. 1863 A, 141.
Sinclair, W. J. 1905 D, 495.
1910 A, 191.
Spencer, J. W. 1898 A, 27.
Steinmann, G. 1909 A, 79.
Stock, C. 1913 A, 341.
1917 A.
1917 C, 275.
1925 A.
Stremme, H. 1911 A, 89.
Stromer, E. 1903 C, 63.
Todd, J. E. 1889 A, 203 (Megalonyx sp. indet.).
Trouessart, E. L. 1905 A, 794.
Upham, W. 1902 A, 149 ("megalonyx").
1903 C, 22679 ("megalonyx").
Wallace, A. R. 1876 A, I, 130, 145, 147.
Weber, M. 1904 A, 451, 461, 462.
Weber and Abel 1928 A, 231.
Weber and Burlet 1927 A, 123, fig. 94.
Winchell, N. H. 1917 A, 133.
Winge, H. 1915 A, 258.
Wright, G. F. 1909 A, 512 ("megalonyx").
1911 B, 436.
Zittel and Schlosser 1911 A, 416.
1923 A, 499, 680, 681, 682.

Megalonyx curvidens Matthew.

Matthew, W. D. 1924 C, 66, 149, fig. 40.
Lower Pliocene (Upper Snake Creek); Nebraska.

Megalonyx dissimilis Leidy.

Hay, O. P. 1902 A, 577.
Cope, E. D. 1899 A, 211 (=M. jeffersonii).
Foster, J. W. 1869 A, 253.
Hay, O. P. 1923 A, 490.
1928 C, 428.
Hrdlička, A. 1907 A, 18.
Peterson, O. A. 1917 A, 472, figs. 4, 5 (This species?).
Shimek, B. 1902 A, 285.
Stock, C. 1925 A, 33.
Trouessart, E. L. 1905 A, 794.
Wilson, T. 1892 A, 629.
1901 A, 322.
Pleistocene; Mississippi, Virginia.

Megalonyx jeffersonii (Desmarest).

Hay, O. P. 1902 A, 577.
Abel, O. 1913 B, 726, fig. 32 (M. jeffersoni).
1914 A, 104, figs. 66, 67.
1919 A, 777, fig. 582.
1920 A, 428, fig. 649.
1926 B, 81, 237 (M. jeffersoni).
Allen, G. M. 1913 A, 327.
Ameghino, F. 1889 A, 1018 (M. jeffersoni).
1909 A, 16, fig. 5 (M. jeffersoni).
Bain, H. F. 1896 A, 277 ("Megalonyx").
Baker, F. C. 1920 A, 371 (Megatherium); 464 (Megalonyx).
Balch, E. S. 1917 A, 481 ("Megalonyx").
Barton, B. S. 1805 B, 152 ("Megalonyx").
1805 D, 165 ("Megalonyx").
Calvin, S. 1909 B, 353, 355 ("Megalonyx").
1910 A, xii ("sloth").
1911 A, 215, pl. xxiii.
Clinton, D. W. 1815 A, 58 ("Megalonyx"; "claw of grizzly bear?").
Cook, H. J. 1927 A, 117 ("Megalonyx").
1927 C, 247.
Cooper, Smith and Dekay 1831 A, 371 ("Megalonyx").
Cuvier, G. 1825 A, v, 1, 159, pl. xv ("Megalonyx").
Deeley, R. M. 1913 A, 14, tab. ("Megalonyx." This species?).
Desmarest, A. G. 1822 A, 366 (Megatherium).

Dickeson, M. W. 1845 A, 78 ("nondescript quadruped").
Figgins, J. D. 1928 A, 82 ("ground sloth").
Fischer, J. B. 1829 A, 389 (Megatherium).
Foster, J. W. 1869 A, 235, 253 ("megalonyx").
1873 A, 59 ("megalonyx").
Frech and Geinitz 1903 A, 34, 36 (M. jeffersoni).
Frick, C. 1921 A, 320.
Gervais, P. 1859 A, 365.
Gidley, J. W. 1927 E, 274 (This species?).
Gidley and Loomis 1926 A, 260 ("Megalonyx").
Giebel, C. G. 1855 C, 337 (M. jeffersoni).
Godman, J. D. 1860 A, II, 46, figs. (Megatherium). '
Greene, G. K. 1881 A, 60.
Haug, E. 1911 A, 1886.
Hay, O. P. 1912 B, 9.
1912 D, 556, text-figs. 2-15, 17-20.
1914 A, 38, 107, pl. iii, figs. 2-7; pl. iv, fig. 3; pl. v; text-figs. 1-29.
1915 A, 516.
1918 B, 18.
1919 D, 361.
1920 B, 110.
1921 A, 609 (This species?).
1923 A, 490.
1924 D, 380.
1926 G, 129 ("sloth").
1927 C, 281 ("megalonyx").
1927 D, 302, 309.
1928 B, 238 ("megalonyx").
1928 C, 425, 428, 429.
Hildreth, S. P. 1837 A, 93 ("Megalonyx").
Hilgard, E. W. 1860 A, 196 ("Megalonyx").
Holland, W. J. 1908 A, 230 ("Megalonyx." This species?).
Hovey, H. C. 1891 A, 161.
1900 B, 20839.
Hrdlička, A. 1907 A, 17, 18.
1918 A, 27.
Joor, J. F. 1895 A, 398 ("Megalonyx." This genus and species?).
Kampfen, P. N. 1905 A, 480.
Kraglievich, L. 1925 B, 233, 235 (M. jeffersoni).
1925 D, 180, 189 (M. jeffersoni).
1926 B, 30, 32 (M. jeffersoni).
1926 D, 178, 185, 186 (M. jeffersoni).
Leidy, J. 1859 J, 181 ("Megalonyx").
1868 K, 179.
1921 A, 198 ("Megalonyx").
Leighton, M. M. 1921 A, 513.
Leverett, F. 1902 A, 403 ("Megalonyx").
Loomis, F. B. 1924 C, 506 (M. jeffersoni).
Lund, P. W. 1838 A, 12.
1839 B, 231.
1839 C, 20.
McCornack, E. C. 1914 A, 15.
Manigault, G. E. 1886 A, 92 ("Megalonyx").
Mantell, G. A. 1850 A, 163, pl. lxxii, figs. 10, 11.
Matson and Clapp 1909 A, 136 (Magalonyx; misprint).
Mercer, H. C. 1894 C, ("fossil sloth").
1896 A, figures ("Megalonyx").
Merriam, J. C. 1912 C, 221.
Merriam and Stock 1925 A, 10 (This species?).
Miller, L. H. 1912 A, 71 (This species?).
Osborn, H. F. 1910 B, 465, 478, fig. 203.
Owen, R. 1856 A, 23.
Rautenberg, M. 1906 A, 39.
Reinhardt, J. 1878 A, 269.
Ruschenberger and Tryon 1879 A, 88 (M. laqueatus).
Schmidt, E. 1872 A, 245 (M. jeffersoni).
Schulthess, B. 1920 A, 78, 103, 104, text-fig. 17.
Scott, W. B. 1913 A, 195, fig. 113.
1924 A, 437 ("ground-sloth").
Sellards, E. H. 1915 B, 143 ("Megalonyx." This species?).
1916 C, 132, 148, 158, pl. xxv, fig. 2; pl. xxx, fig. 6.
1916 D, 617.
1916 E, 16.
1916 F, 7, 9, fig. 6.
Shimek, B. 1902 A, 285.
1904 A, 305 ("Megalonyx").
1910 B, 316, 327 ("Megalonyx").
Sinclair, W. J. 1904 A, 18 (M. jeffersonii?).
1905 B, 156, 161 (M. jeffersonii?).
Spencer, J. W. 1895 A, 137.
Stock, C. 1913 A, 345.
1917 A, 143 (M. jeffersoni).
1925 A, *passim.*
Trouessart, E. L. 1905 A, 794.
Usher, W. 1854 A, 344, 349 ("Megalonyx").
Veatch, A. C. 1906 A, 51 ("Megalonyx").
Ward, H. A. 1866 A, 15, figs.
Weber, M. 1904 A, 97, fig. 76.
Whitney, J. D. 1862 A, 135 ("Megalonyx").
1866 A, 162 ("Megalonyx").
Wilson, T. 1892 A, 629.
1901 A, 322 (M. jeffersoni).
Winge, H. 1915 A, 274.
Worthen, A. H. 1890 A, 8 ("Megalonyx").
Wyman, J. 1850 D, 280 ("Megalonyx").
Zittel and Schlosser 1911 A, 416, fig. 579.
1923 A, 500, fig. 613.

Pleistocene; Ohio, Indiana, Illinois, Kentucky, Missouri, Iowa, Minnesota?, Virginia, West Virginia, South Carolina, Florida, Texas. In some other states with doubt.

Megalonyx jeffersonii californicus Stock.

Stock, C. 1913 A, 352, figs. 12-18 (M. californicus).
Hay, O. P. 1927 D, 183, 185, 190.
Kraglievich, L. 1925 B, 233 (M. californicus).
1926 B, 32 (M. californicus).
Merriam and Stock 1925 A, 11 (M. j. californicus).
Osborn, H. F. 1925 D, 531, 532, 534.
Schulthess, B. 1920 A, 79, 104 (M. californicus).
Stock, C. 1925 A, 30, 101, pls. xvii, xx; text-figs. 45-50 (M. j. californicus).
Swarth, H. S. 1915 A, 23 (M. californicus).
Wyman, L. E. 1922 A, 25 (M. californicus).

Pleistocene (La Brea); California.

Megalonyx leidyi Lindahl.

Hay, O. P. 1902 A, 578.
Baker, F. C. 1920 A, 464.
Cragin, F. W. 1896 A, 53.
Deere, E. O. 1908 A, 117.
Haug, E. 1911 A, 1886.
Haworth and Beede 1897 A, 290 (M. leydeyi).

Hay, O. P. 1914 A, 26.
1924 D, 380.
Matthew, W. D. 1918 A, 229 (This species?).
Osborn, H. F. 1910 B, 462.
Stock, C. 1917 A, 142.
1925 A, 7.
Trouessart, E. L. 1905 A, 794.
Pleistocene (Sheridan); Kansas.

Megalonyx leptostomus Cope.

Hay, O. P. 1902 A, 578.
Dumble, E. T. 1894 A, 559.
Gidley, J. W. 1903 C, 627 (M. leptostoma).
Matthew, W. D. 1909 C, 120 (M. leptostoma).
1923 A, 12 (This species?).
1924 C, 150.
Merriam, J. C. 1917 A, 435.
Montgomery, T. H. 1904 A, 57.
Stock, C. 1925 A, 7, 16.
Trouessart, E. L. 1905 A, 795.
Upper Pliocene (Blanco); Texas.

Megalonyx loxodon Cope.

Hay, O. P. 1902 A, 578.
Baker, F. C. 1920 A, 208, 213, 394.
Rhoads, S. N. 1903 A, 249.
Stock, C. 1925 A, 7.
Wheatley, C. M. 1871 B, 384 (M. toxodon).
Pleistocene (Early); Pennsylvania.

Megalonyx scalper Cope.

Hay, O. P. 1902 A, 578.
Baker, F. C. 1920 A, 208, 213, 394.
Hay, O. P. 1923 A, 31, 312.
Rhoads, S. N. 1903 A, 250.
Schlosser, M. 1902 H, 141.
Stock, C. 1925 A, 7.
Trouessart, E. L. 1905 A, 795 (Syn. of Ereptodon priscus).
Pleistocene (Early); Pennsylvania.

Megalonyx sierrensis Sinclair.

Sinclair, W. J. 1905 B, 155, pls. xx-xxii.
Hay, O. P. 1927 D, 4.
Holmes, W. H. 1902 A, 171 ("gigantic sloth").
Merriam, J. C. 1906 E, 222.
Schulthess, B. 1920 A, 104 (M. sierrenensis).
Sinclair, W. J. 1903 A, 711 ("Megalonyx sp.").
1904 A, 18 ("Megalonyx sp.").
Stock, C. 1925 A, 8.
Pleistocene; California.

Megalonyx tortulus Cope.

Hay, O. P. 1902 A, 578.
Baker, F. C. 1920 A, 208, 213, 394.
Hay, O. P. 1923 A, 31, 312.
Rhoads, S. N. 1903 A, 249.
Schlosser, M. 1902 H, 141.
Stock, C. 1925 A, 7.
Wheatley, C. M. 1871 B, 384.
Pleistocene (Early); Pennsylvania.

Megalonyx validus Leidy.

Hay, O. P. 1902 A, 578.
1924 D, 3, 242.
Hayes and Kennedy 1903 A, 20 ("Megalonyx").
Pleistocene; Texas.

Megalonyx wheatleyi Cope.

Hay, O. P. 1902 A, 578.
Baker, F. C. 1920 A, 208, 213, 394.
Frick, C. 1921 A, 320.
Hay, O. P. 1923 A, 31, 312.
1927 D, 4, 215.
Merriam and Stock 1925 A, 10 (This species?).
Miller, L. H. 1912 A, 71 (This species?).
Rhoads, S. N. 1903 A, 249.
Schlosser, M. 1899 M, 361.
1902 H, 141.
Schulthess, B. 1920 A, 79.
Simpson, G. G. 1928 H, 2, 11, fig. 8 (This species?).
Sinclair, W. J. 1904 A, 18 (M. wheatleyi?).
1905 B, 161, pl. xxiii, fig. 7 (M. wheatleyi?).
Stock, C. 1925 A, 7, 78, 113; text-figs. 27, 31 (M. wheatleyi, M. sphenodon).
Trouessart, E. L. 1905 A, 795.
Wheatley, C. M. 1871 B, 384 (M. wheatleyi, M. sphenodon, M. dissimilis).
Pleistocene (Port Kennedy Cave); Pennsylvania; (Potter Creek Cave); California.

Megalonyx sp. indet.

Chamberlin, R. T. 1916 A, 35 ("sloth").
Condon, T. 1902 A, 152, pl. xxviii, figs. 1, 3 ("Mylodon").
1910 A, 130, pl. xxviii, figs. 1, 3 ("Mylodon").
Cooke, C. W. 1926 A, 445. Pleistocene; Florida.
Diller, J. S. 1911 A, 27. Pleistocene; California.
Frick, C. 1921 A, 294, 320, figs. 1, 29 (This genus?). Pliocene (San Timoteo); California; 350, fig. 57 (This genus?). Pliocene (Eden); California.
Furlong, E. L. 1904 A, 54, 55.
1906 A, 243, 245. Pleistocene; California.
Gidley, J. W. 1903 C, 627. Pliocene (Blanco); Texas.
1915 D, 20 ("Megalonyx"). Pleistocene; Florida.
Gregory, H. E. 1917 A, 82 ("Megalonyx"). Pleistocene; Arizona.
Harris, G. D. 1899 A, 20 ("Megalonyx"). Pleistocene; Louisiana.
Hay, O. P. 1927 D, 302, 309. Pleistocene; Arizona, California.
Matthew, W. D. 1918 A, 186 ("megalonychid." This genus?). Pliocene (Snake Creek); Nebraska.
1925 B, 222 ("Megalonyx"). Staked Plains, Texas.
Matthew and Cook 1909 A, 383. Pliocene (Snake Creek); Nebraska.
Merriam, J. C. 1917 A, 439. (Dunnellon?); Florida.
Merriam and Buwalda 1917 A, 258. Washington.
Merriam and Stock 1925 A, 10. Pleistocene (Potter Creek Cave); California.
Merriam, Stock, Moody 1925 A, 58, 70, fig. 25 ("megalonychid." This genus?). Pliocene (Rattlesnake); Oregon.

Miller, L. H. 1912 A, 71, 73, 74 Pleistocene (Potter Creek, Samwel, and Hawver, caves); California.
Shimek, B. 1910 A, 128.
Sinclair, W. J. 1905 B, 160, pl. xxiii, fig. 6. Miocene (Mascall); Oregon.
1915 A, 83, fig. 7 ("megalonychid." This genus?). Pliocene (Snake Creek); Nebraska.
Stock, C. 1921 C, 320, fig. 29 (This genus?). Pliocene (San Timoteo); California.
Stock, C. 1925 A, 18, fig. 2 (This genus?); Lower Pliocene (Rattlesnake); Oregon: 20, fig. 2 (This genus?); Lower Pliocene (Pinole-Orinda-Siesta); California: 21. Pliocene (Timoteo); California: 21 (This genus?); Pliocene (Eden); California: Pleistocene (La Brea, Upper San Pedro, Bautista and caves); California: 16. Pliocene (Alachua); Florida: Pleistocene; Washington.

EREPTODON Leidy. Type *E. priscus* Leidy.

Hay, O. P. 1902 A, 578.
Palacký, J. 1902 A, 2.
Palmer, T. S. 1904 A, 268, 818.
Wallace, A. R. 1876 A, I, 130.

Ereptodon priscus Leidy.

Hay, O. P. 1902 A, 578.
Foster, J. W. 1869 A, 253.
Gervais, P. 1859 A, 365.
Hay, O. P. 1923 A, 484.
1928 C, 428.
Hrdlička, A. 1907 A, 18.
Shimek, B. 1902 A, 285.
Trouessart, E. L. 1905 A, 794 (Megalonyx).
Wilson, T. 1892 A, 629.
1901 A, 322.
Pleistocene; Mississippi.

MYLODONTINÆ Gill.

Gill, T. 1872 B, 24.
Unless otherwise indicated the authors quoted use the family name Mylodontidæ.
Abel, O. 1913 B, 721 (Mylodontinæ).
1914 A, 105 (Mylodontinæ).
1919 A, 776 (Mylodontinæ).
Ameghino, F. 1889 A, 665, 895, 1019.
1897 B, 260 ("mylodonts").
Arldt, T. 1907 D, 666.
1912 A, 744 (Mylodontinæ).
Beddard, F. E. 1902 A, 179.
Gill, T. 1872 B, 24 (Mylodontinæ).
Hay, O. P. 1912 D, 573.
1914 A, 131.
Kraglievich, L. 1921 A, 95, seq.
1922 A, 451 (Mylodontinæ).
1922 B, 457 (Mylodontinæ).
1925 B, 216.
Kraglievich, L. 1926 B, 22 (Mylodontidæ); 23 (Mylodontinæ).
Lull, R. S. 1915 B, 383.
Matthew, W. D. 1913 B, 291.
Nordenskjöld, E. 1900 A, 29 (Glossotherium).
Osborn, H. F. 1910 B, 541 (Mylodontinæ).
Palacký, J. 1902 A, 2 ("mylodontinen").
Palmer, T. S. 1904 A, 755, 819.
Scott, W. B. 1903 A, 901.
1905 B, 495.
1913 A, 206, 598, 686.
Sefve, I. 1915 A, 61 (Scelidotherium).
Sinclair, W. J. 1905 D, 345, 362, 495.
Stock, C. 1917 C, 275.
Trouessart, E. L. 1905 A, 796.
Weber and Abel 1928 A, 224, 229, 232.
Woodward, A. S. 1899 F, 226 ("ground-sloth").
Zittel and Schlosser 1911 A, 416 (Mylodontinæ).
1923 A, 500 (Mylodontinæ).

MYLODON Owen. Type *M. harlani* Owen.

Hay, O. P. 1902 A, 578.
Abel, O. 1912 F, 261, 373, fig. 192.
1913 B, 726, fig. 34.
1920 A, 428, fig. 648.
1921 A, 284, fig. 103.
Allen, G. M. 1913 A, 319 (Mylodon); 344 (Paramylodon).
Ameghino, F. 1885 A, 111, 204.
1889 A, 1019.
1900 B, 258.
1904 C, 135.
1905 A, 55.
1906 E, 231.
1907 A, 101.
1912 A, 60.
1912 B, 178.
Anonymous 1921 C, 557, fig.
Baker, F. C. 1920 A, 202, 210.
Beddard, F. E. 1902 A, 179.
Boule, M. 1891 A, 40.
1923 A, 399.
Boule and Thevenin 1920 A, 220.
Bronn, H. G. 1848 A, 764.
1849 A, 713.
Brown, B. 1903 A, 569 (Paramylodon).
Burmeister, H. 1881 A, 378.
1886 B, 1132.
1886 C, 96, 110, pl. xvi.
1887 A, 861.
Case, E. C. 1898 C, 827.
Clark, F. W. 1892 A, 630 ("mylodon").
Coleman, A. P. 1914 A, 448.
Cope, E. D. 1880 U, 158.
1895 G, 596, 597, 599.
Depéret, C. 1892 A, 78.
1907 B.
Diener, C. 1912 A, 216.
Eastman, C. R. 1913 B, 677.
Eaton, G. F. 1914 A, 148.
Falconer, H. 1863 A, 62.
Frech, F. 1906 A, 493.
Frech and Geinitz 1903 A, 36.
Frets, G. P. 1910 A, 572.
Gervais, P. 1873 B, 26, seq.

Giebel, C. G. 1855 A, 60, pl. xxv.
1878 C, 854.
1883 A, pls. xxviii, xlv, lvii, lxv, lxvii, lxx, lxxvii, lxxxix.
Haug, E. 1911 A, 1706, 1886.
Hay, O. P. 1910 D, 371, 372.
1912 B, 9 (Mylodon, Paramylodon).
1912 D, 573, text-figs. 16, 22, 23, 27, 28.
1914 A, 131, pl. vii; text-figs. 31, 34, 36-39 (M. robustus).
1917 D, 41, pl. i, figs. 4, 5; pl. ii, figs. 2-4.
1918 B, 10, seq.
1919 A, 311.
1923 A, 491.
1925 D, 242.
Heilprin, A. 1887 A, 339.
Hoernes, R. 1886 A, 663.
Kampfen, P. N. 1905 A, 479.
Kraglievich, L. 1921 A, 9, 13, 24, 25, seq. (Mylodon, Paramylodon).
1922 A, 451.
1922 B, 459, 463 (Mylodon, Paramylodon).
1926 B, 22.
Lankester, E. R. 1905 A, 172, fig. 122.
Leche, W. 1887 A.
Lehman-Nitsche, R. 1900 A, 103.
Lobley, J. L. 1908 A, 214, 217.
Lönnberg, E. 1910 A, 58.
Loomis, F. B. 1926 A, 153.
Lull, R. S. 1915 B, 337 (Paramylodon); 380 (Mylodon).
1917 B, 370.
Mantell, G. A. 1844 A, 845.
Matthew, W. D. 1910 G, 159.
1911 B.
1913 B, 291.
1913 D, 296.
1914 A, 144 (Paramylodon).
1915 A, 262.
1915 K, 403 (Paramylodon); 468 (Mylodon).
1921 G, 557, fig.
1924 E, 748.
Merriam, J. C. 1906 D, 249.
Mivart, St. G. 1879 B, 511.
Moreno, F. P. 1902 A, 301.
Murchison, R. I. 1843 A, 132.
1843 B, 147.
Osborn, H. F. 1905 I, 108, 110.
1906 C, 851.
1909 D, 131.
1910 B, 624 (Mylodon); 627 (Paramylodon).
1912 G, 251 (Paramylodon).
1925 D, 532.
Owen, R. 1843 C, 360.
1845 B, 334.
1851 D, 351.
1860 E, 389, fig.
1866 B, 401, figs. 267, 268.
1868 A, 895.
1879 C, 581.
Palmer, T. S. 1904 A, 438, 819 (Mylodon); 514, 820 (Paramylodon).
Perkins, H. C. 1871 A, 763.
Perrier, E. 1920 A, 366.
Rautenberg, M. 1906 A, 38, 48.
Reinhardt, J. 1878 A.
Ridewood, W. G. 1901 A, 393, 405, pl. xxvi, figs. 24, 25.
Roth, S. 1908 A, 132.
Scharff, R. F. 1911 A, 153, 235, 352.
Schlosser, M. 1899 U, 462, 466.
Schmidt, E. 1872 A, 250 ("mylodonten").
Schmidt, O. 1886 A, 114.
Schulthess, B. 1920 A, 35, 76, 80, 100, 104, pl. v, fig. 11; pl. vi; text-figs. 11, 12, 41.
Scott, W. B. 1905 B, 495.
1913 A, 686, fig. 290.
Sefve, I. 1915 A, 77.
Serres, M. 1852 A, 119.
Sinclair, W. J. 1905 D, 346, 495.
1910 A, 191 (Paramylodon); 194 (Mylodon).
Steinmann, G. 1909 A, 79.
Stock, C. 1914 C, 143 ("mylodont"); 144 (Paramylodon).
1917 A.
1917 B.
1917 C.
1920 C, 514.
1925 A, *passim.*
Terra, P. 1911 A, 263, fig. 92.
Trouessart, E. L. 1905 A, 799 (Paramylodon); 800 (Mylodon).
Troxell, E. L. 1915 B, 479.
Wallace, A. R. 1876 A, i, 130, 147.
Weber, M. 1904 A, 433, 451, 460, 461.
Weber and Abel 1928 A, 225, 232, 233, figs. 139, 146.
Wilson, T. 1892 A, 628.
Winge, H. 1915 A, 139, 258, pl. xxvi.
1923 A, 317, 353 (Mylodon, Paramylodon).
Woodward, A. S. 1899 D, 351.
1899 F, 226.
1900 G, 64.
1902 A, 305, figs. (Mylodon?).
1923 C, 72.
Wright, G. F. 1911 B, 436.
Zittel and Schlosser 1911 A, 417 (Mylodon, Paramylodon).
1923 A, 500, 680, 681, fig. 620.

Mylodon? freudenbergi Hay.

Freudenberg, W. 1921 A, 140, pl. ia, figs. 1, 2 ("M? sp. major; M? sp. minor").
Pleistocene?; Mexico.

Mylodon garmani Allen.

Allen, G. M. 1913 A, 319, pls. i-iii; pl. iv, figs. 17-21.
Freudenberg, W. 1922 A, 4.
Hay, O. P. 1924 D, 5, 8, 9.
Kraglievich, L. 1921 A, 101, seq.
1922 B, tab.
Lull, R. S. 1915 B, 337, 379.
Matthew, W. D. 1914 A, 144.
Reinhardt, J. 1879 B, 268, seq.
Schulthess, B. 1920 A, 101.
Stock, C. 1914 B, 319, 326, 329.
1917 B, 166.
1917 C, 276.
1925 A, 12, 193.
Pleistocene (Sheridan); Nebraska.

Mylodon harlani Owen.

Hay, O. P. 1902 A, 579.
Allen, G. M. 1913 A, pl. iv, fig. 16.
Ameghino, F. 1904 C, 135.

Archer, W. J. 1918 B, 13 ("giant sloth").
Baker, F. C. 1920 A, 464 (M. harlani); 465 (Paramylodon nebrascensis).
Blake, W. P. 1884 A, 273, fig. 2 ("mylodon", Homo nevadensis).
Brown, B. 1903 A, 571, pls. l, li (Paramylodon nebrascensis).
Calvin, S. 1909 B, 353, pl. xxvi ("Mylodon").
1910 A, xii ("sloth").
Campbell, G. D. 1883 A, 578 ("human").
Chamberlin, R. T. 1916 A, 35 ("sloth").
Chamberlin, T. C. 1919 A, 316 ("Mylodon").
Collins, H. O. 1910 A, 6 ("ground sloth").
Conklin, E. G. 1925, in Stock, C. 1925 A, 121.
Cook, H. J. 1927 A, 117 ("Mylodon").
1927 C, 245 ("Mylodon").
Deeley, R. M. 1913 A, 14, tab. ("Mylodon").
Deussen, A. 1924 A, 108 (This genus?).
Falconer, H. 1863 A, 61.
Featherstonhaugh, G. W. 1831 C, 45 (Megalonyx laqueatus).
Figgins, J. D. 1928 A, 82 ("ground sloth").
Foster, J. W. 1869 A, 253.
1873 A, 60 ("mylodon").
Freudenberg, W. 1922 A, 4.
Gervais, P. 1859 A, 365 (M. harloni).
Gidley and Loomis 1926 A, 260 ("Mylodon").
Gilbert, J. Z. 1910 B, 25, 39, figs. 10-12, 15 ("ground sloth").
Harkness, H. W. 1882 A, 3 ("human foot prints").
Harris, G. D. 1899 A, 38 (This species?).
Haug, E. 1911 A, 1886.
Hay, O. P. 1912 D, 573, text-figs. 21, 24.
1914 A, 26, 132, pl. vi, figs. 3, 4; pl. viii, figs. 1, 2; text-figs. 32, 33, 35, 40-42.
1916 E, 54 ("Mylodon").
1917 A, 15.
1918 B, 18.
1923 A, 491.
1923 B, 116.
1924 D, 381.
1926 F, 426 ("sloths").
1926 G, 129 ("sloth").
1927 C, 281 ("mylodons").
1927 D, 303, 309 (M. harlani); 8, 51 (Orycterotherium); 7 (Paramylodon nebrascensis).
1928 B, 237 ("Mylodon").
1928 C, 425, 428.
Holmes, F. S. 1860 A, iv, vi ("mylodon").
Hrdlička, A. 1907 A, 18.
Joor, J. F. 1895 A, 397.
Kraglievich, L. 1921 A, 97, seq.
1922 A, 453 (M. harlani, Paramylodon nebrascensis).
1922 B, 457, tab. (M. harlani, Paramylodon nebrascensis).
1925 B, 223, 224.
Le Conte, J. 1882 A, 923 ("Mylodon").
1882 B, 8 ("mylodon").
1883 A, 102 ("Mylodon").
Leidy, J. 1859 J, 181.
Leunis and Ludwig 1883 A, 288.
Louderback, G. D. 1907 A, 211 ("mylodon").
Lull, R. S. 1913 B, 117 ("Mylodon").
1915 B, 327, figs. 1-12 (Mylodon); 338, 380 (Paramylodon a syn.).
Lydekker, R. 1915 C, 623.
Lyell, C. 1845 B, I, 164 ("Mylodon").
1847 C, lxxxi ("mylodon").
1855 A, I, 348 ("Mylodon").
McCornack, E. C. 1920 A, 18, 19, 23.
MacCurdy, G. G. 1917 A, 259, 261 ("Mylodon." This species?).
Matthew, W. D. 1916 F, 471 ("ground sloths").
1918 A, 227 (M. nebrascensis).
Mercer, H. C. 1896 A ("Mylodon").
Merriam, J. C. 1900 A, 613 ("Orycterotherium oregonense").
Merriam and Stock 1925 A, 11.
Merrill, G. P. 1907 A, 49.
Miller, L. H. 1912 A, 78 (Paramylodon sp.).
Murchison, R. I. 1843 A, 131.
Osborn, H. F. 1910 B, 472.
1925 D, 528, 531, 534, figs.
Owen, R. 1843 C, 360.
Perkins, H. C. 1842 B, 57 ("Mylodon." This species).
Rhoads, S. N. 1903 A, 249 (M. missouriensis).
Rogers, H. D. 1844 A, 258 ("mylodon").
Schulthess, B. 1920 A, 101.
Sellards, E. H. 1916 E, 15, 16 ("Mylodon").
1916 F, 9 (Mylodon sp.).
Shimek, B. 1902 A, 285.
1904 A, 305 ("Mylodon." This species?).
1910 A, 136 ("Mylodon").
1910 B, 316, 327 (Mylodon).
Sinclair, W. J. 1910 B, 191, fig. 1 (Paramylodon nebrascensis).
Stock, C. 1914 A, 761.
1914 B, 319, 320, 326, 329, figs. 1-6.
1916 A, 169 ("Mylodon").
1917 A, 140.
1917 B, 166, 174 ("nebraska skull").
1917 C, 267, figs. 1-5, 7, 8.
1917 D, 226.
1920 B, 425, pl. li.
1925 A, 10, 30, 113, 120, pls. xxi-xlvii; text-figs. 55-117.
Stoner, R. C. 1913 A, 390 ("sloth").
Swarth, H. S. 1915 A, 22, fig. 10.
Trouessart, E. L. 1905 A, 799 (Paramylodon nebrascensis); 800 (M. harlani).
Troxell, E. L. 1915 A, 616, 636.
1917 A, 88, fig. 1.
Usher, W. 1854 A, 344 ("Mylodon").
Veatch, A. C. 1899 A, 245.
1906 A, 51 ("Mylodon").
Veatch and Stevenson 1911 A, 437 ("Mylodon").
Villada, M. M. 1903 A, 451 (M. robustus. This species?).
Wheatley, C. M. 1871 B, 384.
Wilson, T. 1892 A, 629.
1901 A, 322.
Winge, H. 1915 A, 288.
Woodward, A. S. 1898 B, 280.
Wyman, L. E. 1922 A, 24, fig. 24 ("ground-sloth").
1927 A, 83, fig. ("giant sloth").
Zittel and Schlosser 1911 A, 417.
1923 A, 500.

Pleistocene (Early to Middle). Reported from about 15 states, from Pennsylvania to Florida, west to Washington, south to Nevada and Mexico.

Mylodon harlani tenuiceps Stock.

Stock, C. 1917 B, 171, pls. iii, iv.
Abel, O. 1926 B, 237.
Hay, O. P. 1927 D, 183, 185, 190.
Kraglievich, L. 1922 B, tab.
Merriam, J. C. 1908 D, 470, fig. ("groundsloth").
Merriam and Stock 1925 A, 11.
Osborn, H. F. 1925 D, 531.
Stock, C. 1925 A, 30, 192, pls. xlii, xliii.
Pleistocene (Early); California.

Mylodon renidens Cope.

Hay, O. P. 1902 A, 579.
Allen, G. M. 1913 A, 320.
Hay, O. P. 1923 A, 43.
1924 D, 1, 218.
1927 D, 7.
Kraglievich, L. 1921 A, 101, seq.
Lull, R. S. 1915 B, 334, 380 (= M. harlani).
Stock, C. 1914 B, 320, 331 (Syn. of M. harlani).
Veatch, A. C. 1899 A, 246.
Pleistocene; Louisiana.

Mylodon sodalis Cope.

Hay, O. P. 1902 A, 579.
Allen, G. M. 1913 A, 320, 340.
Cope, E. D. 1878 II, 125 ("Mylodon").
Dumble, E. T. 1894 A, 564.
Gidley, J. W. 1903 C, 623 (This species?).
Gilbert, G. K. 1890 A, 304, 394.
Haug, E. 1911 A, 1886.
Hay, O. P. 1924 D, 1, 239.
1927 D, 309.
Hodge, E. T. 1925 A, x ("giant sloth").
Lull, R. S. 1915 B, 333, 380 (=M. harlani).
McCornack, E. C. 1914 A, 15 ("sloth").
1920 A, 17 ("Mylodon").
Matthew, W. D. 1902 F, 320, 321 ("Mylodon").
Miller, L. H. 1912 A, 81.
Osborn, H. F. 1910 B, 458, 459.
Russell, I. C. 1884 A, 460 ("edentate").
Stock, C. 1914 B, 320.
1925 A, 10, 195 (Syn. of M. harlani).
Pleistocene (Fossil Lake); Oregon: Pleistocene; Texas?

Mylodon sulcidens Cope.

Hay, O. P. 1902 A, 579.
Allen, G. M. 1913 A, 320.
Hay, O. P. 1923 A, 43.
1924 D, 1, 218.
1927 D, 7.
Lull, R. S. 1915 B, 336, 380 (Syn. of M. harlani).
Stock, C. 1914 B, 320, 331 (Syn. of M. harlani).
Veatch, A. C. 1899 A, 246.
Pleistocene; Louisiana.

Mylodon sp. indet.

Cooke, C. W. 1926 A, 445. Pleistocene; Florida.
Cope, E. D. 1895 G, 597 ("small mylodon"). Pleistocene (Cave deposit); Tennessee.
Freudenberg, W. 1922 A, 25. Pleistocene; Mexico.
Gidley, J. W. 1903 C, 627. Pliocene (Blanco); Texas.
1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1914 A, 26. Pleistocene (Early); Nebraska.
1923 A, 491. Pleistocene; Tennessee.
1924 B, 260 ("mylodon"). Pleistocene; Florida.
1924 D, 381. Pleistocene; Kansas, Louisiana, Missouri, Nebraska, Texas.
1925 C, 28. Pleistocene; Mexico.
1927 D, 303, 309. Pleistocene; California, Florida, Oklahoma.
Matthew, W. D. 1909 C, 120. Pliocene (Blanco); Texas.
Mercer, H. C. 1894 B, 356 ("extinct edentate").
Merriam and Stock 1921 A, 567. Pleistocene (Early); California.
1925 A, 11. Pleistocene (McKittrick); California.
Miller, L. H. 1925 A, 309 ("mylodont"). Pleistocene (McKittrick); California.
Stock, C. 1925 A, 196, figs. 119, 120 (M. near harlani. Pleistocene (Christmas Lake); Oregon; 199 (Delight); Washington.
Swingle, W. F. 1925 A, 201 ("ground-sloth." This genus?). Pleistocene (Early); California.
Veatch, A. C. 1899 A, 245 (M. cf. robustus?). Pleistocene; Louisiana.

THINOBADISTES Hay. Type *T. segnis* Hay.

Hay, O. P. 1919 C, 104.

Thinobadistes segnis Hay.

Hay, O. P. 1919 C, 104-106, pl. xxvii, figs. 1, 2.
1921 A, 638, pl. cxix, figs. 6-11.
1923 A, 37, 375.
Pleistocene (Early); Florida.

MOROTHERIUM Marsh. Type *M. gigas* Marsh.

Hay, O. P. 1902 A, 579.
Cope, E. D. 1880 U, 157.
Depéret, C. 1907 B.
Hoernes, R. 1886 A, 664.
Lobley, J. L. 1908 A, 214.
Merriam, J. C. 1900 A, 614.
Palacký, J. 1902 A, 2.
Palmer, T. S. 1904 A, 433, 818.
Schlosser, M. 1899 U, 461.
Stock, C. 1925 A, 117.
Trouessart, E. L. 1905 A, 795.
Wallace, A. R. 1876 A, I, 140.
Winge, H. 1915 A, 313.

Morotherium gigas Marsh.

Hay, O. P. 1902 A, 580.
1927 D, 302.
Lawson, A. 1914 A, 15.

Merriam, J. C. 1900 A, 612, pl. lviii ("Morotherium". This species?).
1914 D, 15.
Sinclair, W. J. 1904 A, 20.
Stock, C. 1925 A, 117.
Trouessart, E. L. 1905 A, 795.
Pleistocene (San Antonio); California.

Morotherium leptonyx Marsh.

Hay, O. P. 1902 A, 580.
1923 A, 8.
1929 D, 265, 268.
Leidy, J. 1871 C, 365 ("sloth").
Merriam, J. C. 1917 A, 432.
Russell, I. C. 1902 A, 56 ("Morotherium." This species?).
Pleistocene (Idaho); Idaho.

Morotherium sp. indet.

Hay, O. P. 1927 D, 302, 309. Pleistocene; California, Idaho.
Winslow, C. F. 1875 A, 141 (This genus?). Pleistocene; California.

Suborder HICANODONTA Ameghino.

Ameghino, F. 1889 A, 758, 1015.
Abel, O. 1912 F, 377.
1913 B, 727.
1914 A, 100, 110.
1919 A, 779.
1920 A, 427.
Ameghino, F. 1906 D, 90.
1909 A, 2, 28.
1909 B, 107, 109.
Flower, W. H. 1883 A, 178 (Loricata).
Flower and Lydekker 1891 A, 179 (Loricata).
Gidley, J. W. 1926 A, 91 (Glyptodontia).
Gill, T. 1872 A, 24 (Loricata. Preoccupied for Crocodilia).
Gregory, W. K. 1910 A, 465.
Osborn, H. F. 1910 B, 541 (Loricata).
Schulthess, B. 1920 A, 66, 92.
Scott, W. B. 1913 A, 592, 610 (Loricata).
Weber, M. 1904 A, 458, 464.
Weber and Abel 1928 A, 217, 223.
Winge, H. 1923 A, 330.
Zittel and Schlosser 1911 A, 418.
1923 A, 501.

Superfamily DASYPODOIDÆ, new form.

For this group most of the authors here cited the name Dasypoda.
Ameghino, F. 1906 B, 1.
1906 D, 70, 91.
1906 E, 242.
1907 A, 122.
1909 A, 2, 29.
Arldt, T. 1907 C, 677.
1907 D, 29, 144.
Gill, T. 1886 A, 47 (Loricata).
Hoernes, R. 1886 A, 662.
Illiger, C. 1811 A, 110 (Cingulati).
Kingsley, J. S. 1925 A, 50 (Dasypoda).
Osborn, H. F. 1909 D, 124.
1910 B, 541.
Scharff, R. F. 1911 A, 399.
Scott, W. B. 1905 A, 242.
1913 A, 189, 592, 610.
Sinclair, W. J. 1905 D, 7, 362, 492.
Trouessart, E. L. 1905 A, 811.
Vicq d'Azyr, F. 1819 A, 55 (Loricati).
Zittel and Schlosser 1911 A, 421.
1923 A, 505 (Dasypoda).

DASYPODIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 10, 23.
Hay, O. P. 1902 A, 581.
Abel, O. 1901 A, 29 ("dasypodides").
1912 F, 377.
1913 B, 727.
1919 A, 780.
Agar, W. E. 1909 A, 374, figs. 1-4 ("armadillo").
Allessandrini, A. 1849 B, 396 ("armadili").
Ameghino, F. 1883 A, 1 ("dasypideos").
1889 A, 1009 (Chlamydotheridæ); 1010 (Dasypodidæ).
1893 A, 428 (Dasypidæ).
1909 B, 93 ("tatous").
Anthony, R. 1912 A.
Arldt, T. 1907 A, 239, 243.
1907 B, 455 ("dasypoden").
1907 D, 649.
1912 A, 698, 699.
Beddard, F. E. 1902 A, 173.
Beyer, H. 1908 A, 87 ("gürteltiere").
Black, N. 1900 A, 10 ("armadillos").
Bonaparte, C. L. 1832 A, 290.
1838 B, 111.
Boule and Thevenin 1920 A, 210 ("dasypodes").
Burmeister, H. 1866 B, 231 (Loricata).
1879 B, 426 (Dasypidæ).
Clark and Sonntag 1926 A, 455.
Elliott, D. G. 1901 A, 4.
Flower, W. H. 1870 A, 244 ("armadillos").
1883 D, 386.
Flower and Lydekker 1891 A, 194.
Gervais, P. 1855 A, 54 ("dasypidés").
Giebel, C. G. 1883 A ("gürtelthiere").
Gill, T. 1885 B, 21.
1886 A, 48 (Tatusiidæ).
Grant, M. 1904 B, 205.
Gray, J. E. 1821 A, 305 (Dasipidæ).
1825 B, 343 (Dasypidæ).
Gregory, W. K. 1913 E, 24, fig. 17 (Tatusia).
Grevé, C. 1902 A, 91.
Hay, O. P. 1923 A, 5.
Hogben, L. T. 1919 A, 73.
Huxley, T. H. 1863 B, 319 ("armadillos").
1863 F, 529, 530 ("armadillos").
Kampfen, P. N. 1905 A, 341.
Kükenthal, W. 1913 A, 679.
Lane, H. H. 1909 A, 25 (Dasypodididæ).

Lane, H. H. 1910 A, 914.
Leche, W. 1887 A.
1895 A, 110 (Tatusia).
1900 A, 1006.
Leenhardt, L. E. E. 1906 A ("tatous").
Lubosch, W. 1908 B.
Lydekker, R. 1914 A, 637 ("armadillo").
Matthew, W. D. 1910 I, 151 ("armadillos").
1912 F, 301 ("armadillos").
1915 K, 468, fig. 17 ("armadillos").
1918 H, 620 ("armadillos").
1928 B, 965 ("armadillos").
Meckel, J. F. 1825 A ("gürtelthiere").
Miller, G. S. 1912 B, 378.
Osborn, H. F. 1909 D, 31.
Owen, R. 1845 B, 320, 326 ("armadillos").
1866 B, 279, 296, 407.
1868 A, 876.
Palmer, T. S. 1904 A, 736, 813 (Dasypodidæ); 773, 813 (Tatusidæ).
Pander and Alton 1825 A, 5 ("dasypoden").
Parker, W. K. 1885 C, 7-46, pls. i-vii.
Pictet, F. J. 1853 A, 272 ("dasypides").
Reche, O. 1905 B, 244.
Rehs, J. 1914 A, 39.
Römer, F. 1893 A, 527 ("gürteltiere").
Schlosser, M. 1905 B, 126 ("dasypodiden").
Schulthess, B. 1920 A, 63, 81, 105.
Scott, W. B. 1905 B, 40.
1913 A, 592.
1917 A, 134 ("armadillos").
Sinclair, W. J. 1905 D, 40, 362, 492.
Taschenberg, O. 1899 A, 4537.
Terra, P. 1911 A, 260.
Thomas, O. 1888 A, 456.
Tims, H. W. M. 1908 A, 386.
Tomes, C. S. 1874 A, 44 (Tatusia).
Van den Broeck, A. J. P. 1912 A, 784.
Wallace, A. R. 1876 A, II, 245.
Weber, M. 1904 A, 453, 454, 464.
Weber and Abel 1928 A, 171, 218, 223.
Wegner, R. N. 1922 A, 413.
Wilson, C. W. 1914 A, 5 (Dasypidæ).
Winge, H. 1915 A, 219, 225, 238.
1923 A, 282, 288, 303.
Woodward, H. 1904 B, 156.
Zittel and Schlosser 1911 A, 421.
1923 A, 505.

DASYPODINÆ.

Flower, W. H. 1883 D, 387.
Miller, G. S. 1912 B, 378.
1924 C, 502.
Schulthess, B. 1920 A, 82, 84, 106 (Dasypodinæ, Tatusinæ).
Trouessart, E. L. 1905 A, 814.
Weber, M. 1904 A, 453, 455.
Weber and Abel 1928 A, 219, 223.
Winge, H. 1915 A, 219, 238 (Dasypodini).
1923 A, 282, 304 (Dasypodini).

DASYPUS Linnæus. Type not specified.

Linnæus, C. 1758 A, 50-51.
Abel, O. 1912 F, 371.
Agar, W. E. 1909 A, 377.
Alessandrini, A. 1849 A, 379, pl. xxiv, fig. 3; pl. xxvi, figs. 1, 2; pl. xxviii, fig. 3.
1849 B, 393, pls. xxviii, xxix.
Altmann, F. 1925 A, 108.
Ameghino, F. 1883 A, 6.
1889 A, 1010.
1906 D, 72, 83.
1906 E, 246.
1909 A, 31, figs. 16-18, 39.
1909 B, 99 (Tatusia).
Anderson, R. J. 1912 E, 908.
Arldt, T. 1907 B, 455.
Ballowitz, E. 1892 A, 133.
Bardeleben, K. 1885 B, 86.
1906 A, 133.
Bayer, F. 1897 A, 147, fig. 16.
Bensley, B. A. 1902 A, 7, pl. i, fig. 6 (Tatusia).
Bertelli, D. 1909 A, 161.
Bojanus, L. H. 1819 A, 1364.
Bonsdorff, E. J. 1871 A, 315, pl. iv.
Bronn, H. G. 1848 A, 404.
1849 A, 712.
Broom, R. 1903 I, 549.
1906 E, 370.
1915 C, 27.
Burmeister, H. 1866 B, 231, 232.
1879 B, 434.
Clark and Sonntag 1926 A.
Cleland, J. 1863 B, 302 ("armadillo").
Cuvier, G. 1805 A.
1825 A, v, 1, 120-142, pl. xi ("tatous").
Depéret, C. 1907 B ("tatous").
Diener, C. 1912 A, 224.
Doran, A. H. G. 1878 A, 472, pl. lxiv.
Eggeling, H. 1904 A, 87, figs. 22, 23.
Eimer, G. H. T. 1901 A, 257.
Elliot, D. G. 1901 A, 4, pl. i (Cabassous).
Fawcett, E. 1918 A, pls. xvi, xvii (Tatusia).
1921 A, 187-217, pls. vi-ix (Tatusia).
Fernandez, M. 1921 A, 516.
Fischer, E. 1903 A, 702.
Fischer, J. B. 1829 A, 389.
Fleischmann, A. 1904 A, 484.
Flower, W. H. 1868 A, 378 (Tatusia).
1883 D, 387.
Flower and Lydekker 1891 A, 197 (Dasypus); 200 (Tatusia).
Foote, J. S. 1916 A, 112 (Tatu).
Fuchs, H. 1907 A, 154.
1911 B, 383, fig. 18.
1912 D, 147.
1914 A, 30.
Gaupp, E. 1905 E, 160.
1906 B, 821.
1913 A, 62.
Gegenbaur, C. 1864 C, 184.
1865 C, 556, 563.
Gervais, P. 1853 B, 67 ("tatou").
Giebel, C. G. 1855 A, 61, pl. xxv, figs. 9, 10.
1883 A, pls. xxix, lviii, lxii, lxx, lxxvi, lxxxiv, lxxxviii.
Gill, T. 1886 A, 49.
Gottlieb, H. 1914 A, 187.
Gregory, W. K. 1920 A, 167, fig. 114.
1921 A, 77.

Grevé, C. 1902 A, 92 (Tatusia).
Hasse and Schwarck 1870 A, 123, fig. 41.
Hay, O. P. 1918 B, 13.
Hogben, L. T. 1919 A, 73.
Howes, G. B. 1893 C, 589 (Tatusia).
Huxley, T. H. 1863 B, 324.
  1863 D, 233, figs. 2, 3.
  1865 B, 40, 65.
Kampfen, P. N. 1905 A, 493, fig. 44.
Kerbert, C. 1876 A, 253.
Kingsley, J. S. 1925 A, 260, 291, figs. 196, 278, 316.
Köstlin, O. 1844 A.
Leboucq, H. 1884 A, 75.
Leunis and Ludwig 1883 A, 286.
Leydig, F. 1859 A, 703.
Lubosch, W. 1908 B.
  1911 A, 326.
  1911 B, 742, 746.
  1926 A, 110.
Lund, P. W. 1841 A, 68, 225.
Lydekker, R. 1903 D, 125 ("armadillos").
Martin, B. 1916 A, 647, pls. i-iv; text-figs. 1-15.
Matthew, W. D. 1912 F, 302 ("armadillo").
  1915 K, 467.
  1918 H, 625, 644, figs. 61, 62, 64-68.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 60 (Tatusia).
Meyer, G. H. 1847 A, 87.
Miller, G. S. 1912 B, 378.
  1924 C, 503.
Mysberg, W. A. 1917 A, 652, fig. 4 (Tatusia).
Newman, H. H. 1913 A, 513, figs. 1-7.
  1916 A, 173.
Owen, R. 1845 B, 326, pl. lxxxv (Tatusia).
  1848 B, 94.
  1851 D, 350.
  1866 B, 393, 408, figs. 260, 261, 276.
Palmer, T. S. 1904 A, 217, 814.
Pander and Alton 1825 A, 5, pl. vii.
Parker, W. K. 1885 C, 118.
Parker and Haswell 1897 A, 470, figs. 1049, 1072, 1077, 1088.
Paulli, S. 1900 B, 511, fig. 25.
Pictet, F. J. 1853 A, 275.
Rehs, J. 1914 A, 39.
Retzius, A. 1837 A, 489.
  1849 A, 651.
Reynolds, S. H. 1897 A, 424, 459, 487, 505.
Ridewood, W. S. 1901 A, 404, pl. xxvi, figs. 18, 19.
Römer, F. 1893 A, 527.
Schmidt, O. 1886 A, 120.
Schmidt, W. J. 1910 A, 637.
Schulthess, B. 1920 A, 28, 63, 82, 106; text-figs. 19, 23, 47, 50 (Dasypus tatusia).
Schwalbe, G. 1904 A, 207.
Scott, W. B. 1905 B, 492.
  1916 A, 115 ("armadillo").
Seeley, H. G. 1876 C, 176 ("armadillo").
Simpson, G. G. 1927 H, 288, 291.
  1928 H, 4 (Tatu).
Sinclair, W. J. 1905 D, 8, 492.
Spurgin, A. M. 1904 A, 75, pls. i, ii.
Stromer, E. 1902 B, 556.
Taschenberg, O. 1899 A, 4537.
Terra, P. 1911 A, 260.
Thomas, O. 1887 A, 312 (Tatusia).
  1888 A, 458.
Toldt, C. 1905 A, 328, figs.
Tornier, G. 1891 A, 189.
Trouessart, E. L. 1905 A, 820.
Vicq-d'Azyr, F. 1819 A, 56.
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, I, 145, 147.
Van den Broeck, A. J. P. 1912 A, 784.
Weber and Abel 1928 A, 189, 193, 204, 217; figs. 111, 112, 116, 128, 129, 138, 219, 220.
Weber and Burlet 1927 A.
Wegner, R. N. 1922 A, 414.
Wiedersheim, R. 1892 A, 61, pl. vii, fig. 18.
Wilder, W. B. 1872 B, 321.
Wilson, C. W. 1914 A, 5, pls. i-x (Dasypus, Tatusia).
Winge, H. 1915 A, 52, 278.
  1923 A, 292, 296.
Woodward, M. F. 1894 B, 444.
Wortman, J. L. 1920 A, 15.
Ziegler, H. 1901 A, 237 (Dasypus).
Zittel and Schlosser 1911 A, 421 (Tatusia).
  1923 A, 505 (Tatusia).

Dasypus sp. indet.

Abel, O. 1926 B, 81. Pleistocene; Florida.
Chamberlin, R. T. 1916 A, 35 ("armadillo").
Cooke, C. W. 1926 A, 445 (Dasyphus). Pleistocene; Florida.
Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1917 E, 44.
  1919 C, 106.
  1923 A, 483. Pleistocene; Florida.
  1927 D, 274. Pleistocene; Florida.
Matthew, W. D. 1925 A, 97. Pleistocene (Early); Florida.
Sellards, E. H. 1916 B, 103. Pleistocene; Florida.
  1916 C, 139, 140, 148, 158, pl. xxix, figs. 1, 2. Pleistocene (Early); Florida.
  1916 D, 616. Pleistocene (Early); Florida.
  1916 E, 16, 17. Pleistocene; Florida.
Simpson, G. G. 1928 H, 2 (Tatu). Pleistocene (Early); Florida.

TOMIOPSIS Cope. Type *T. ferruminatus* Cope.

Hay, O. P. 1902 A, 581.
Palmer, T. S. 1904 A, 682, 822.
  A genus of uncertain position.

Tomiopsis ferruminatus Cope.

Hay, O. P. 1902 A, 581.
Montgomery, T. H. 1904 A, 57.
  Neocene?; Texas.

CHLAMYTHERIINÆ.

Arldt, T. 1912 A, 744 (Chlamydotherinæ).
Castellanos, A. 1927 B, 1 (Chlamydotherinæ).
Palacký, J. 1902 A, 2 ("chlamydotherien").
Schulthess, B. 1920 A, 81 (Chlamydotheriinæ).

Trouessart, E. L. 1905 A, 812 (Chlamydotheriinæ).
Weber, M. 1904 A, 465 (Chlamydotherinæ).
Winge, H. 1915 A, 219, 258 (Chlamydotheriini).
1923 A, 282 (Chlamydotheriini).

Chlamytherium Lund. Type *C. humboldtii* Lund.

Unless otherwise indicated the authors, as quoted, use the form Chlamydotherium.

Lund, P. W. 1838 A, 11 (Chlamytherium).
Hay, O. P. 1902 A, 581 (Chlamytherium).
Abel, O. 1919 A, 780.
Ameghino, F. 1883 A, 4, 33.
1885 A, 137, 170.
1889 A, 1009.
1897 B, 263.
1904 B, 23.
1906 E, 246.
1912 B, 179.
Bronn, H. G. 1838 A, 1258.
1848 A, 292.
1849 A, 712.
Castellanos, A. 1927 B, 1.
Depéret, C. 1907 B.
Diener, C. 1912 A, 224 (Chlamytherium).
Gervais, P. 1873 B, 23.
Giebel, C. G. 1855 A, 62.
1883 A, 149.
Hay, O. P. 1918 B, 13, 14 (Chlamytherium).
1926 E, 389 (Chlamytherium).
Huxley, T. H. 1895 B, 43.
Janensch, W. 1904 A, 90.
Lund, P. W. 1839 B, 217.
1841 A, 69, 232.
MacCurdy, G. G. 1917 A, 261 (Chlamytherium).
Matthew, W. D. 1915 A, 262.
1918 H, 647.
1925 A, 97.
Osborn, H. F. 1910 B, 542.
Oswald, F. 1909 A, 125.
Owen, R. 1845 B, 323.
Palacký, J. 1902 B, 142.
Palmer, T. S. 1904 A, 184, 814.
Pictet, F. J. 1853 A, 274, pl. viii, fig. 12.
Schulthess, B. 1920 A, 27.
Scott, W. B. 1913 A, 596, 612, 678.
Sellards, E. H. 1915 B, 139.
1915 D, 77.
1917 A, 249.
1917 C, 76.
Serres, M. 1852 A, 120.
1852 B, 183.
Terra, P. 1911 A, 261.
Trouessart, E. L. 1905 A, 812.
Weber, M. 1904 A, 465, 467.
Weber and Abel 1928 A, 226.
Winge, H. 1915 A, 8, 88, pls. viii-xv.
1923 A, 298, 304.
Zittel and Schlosser 1911 A, 421.
1923 A, 505.

Chlamytherium septentrionale Leidy.

Hay, O. P. 1902 A, 581 (C. humboldtii).
Abel, O. 1926 B, 81.
Baker, F. C. 1920 A, 373 (C. septentrionalis).
Cahn, A. R. 1922 A, 22, pls. ii, iii.
Chamberlin, R. T. 1916 A, 35 ("armadillo").
1917 A, 675 ("armadillo").
Chamberlin, T. C. 1919 A, 316 ("Chlamytherium").
Gidley, J. W. 1927 E, 274.
Gidley and Loomis 1926 A, 260 ("Chlamytherium").
Hay, O. P. 1916 E, 55 ("Chlamytherium").
1917 E, 44 (chlamytherium).
1918 D, 461 ("armadillo").
1923 A, 482 (Chlamytherium).
1924 B, 259 ("giant armadillo").
1926 C, 2, pl. ii, fig. 2 (Chlamytherium).
1927 D, 273, 274, 286 (Chlamytherium).
1928 B, 238 ("Chlamytherium").
1928 C, 426 (Chlamytherium).
Hrdlička, A. 1926 A, 9 ("giant armadillo").
Loomis, F. B. 1924 C, 506 (Chlamydotherium).
MacCurdy, G. G. 1917 A, 261 ("Chlamytherium").
Matson and Clapp 1909 A, 136, 137 (Chlamydotherium humboldtii).
Sellards, E. H. 1915 B, 139, figs. 1-6.
1915 D, 77, 78, figs. 10, 47-49, 51, 52.
1916 B, 103, 104.
1916 C, 139, 140, 148, 158, pl. xxviii, figs. 4-6; pl. xxx, fig. 7.
1916 D, 616.
1916 E, 16, 17, 23.
1916 F, 9.
1917 E, 198 ("Chlamytherium").
Simpson, G. G. 1928 H, 2, 13, fig. 9.
Spencer, J. W. 1895 A, 137 (Chlamydotherium humboldtii).

Pleistocene (Early); Florida, Texas.

Chlamytherium sp. indet.

Cooke, C. W. 1926 A, 445. Pleistocene; Florida.

Superfamily GLYPTODONTOIDÆ, new name.

Unless otherwise indicated, the writers, as cited, use for this group the name Glyptodontia.

Abel, O. 1901 A, 28 ("glyptodontes").
1908 D, (215) ("glyptodonten").
Ameghino, F. 1885 A, 129.
1889 A, 1014.
1906 D, 91.
1906 E, 242.
1907 A, 122.
1909 A, 2.
Arldt, T. 1907 B, 455 ("glyptodontier")
1907 C, 677.
1907 D, 29, 144.
Brown, B. 1912 C, 175.
Osborn, H. F. 1906 C, 776.
1909 D, 126.
1910 B, 542.
Richter, J. 1911 A, 257 (Hoplophorus).
Scharff, R. F. 1911 A, 399.
Scott, W. B. 1903 A, 901.
1905 A, 242.

Scott, W. B. 1905 B, 494.
1913 A, 205, 592, 617, 681.
Sinclair, W. J. 1905 D, 107, 362, 494.
Trouessart, E. L. 1905 A, 805.
Zittel, K. A. 1893 B, 140.

GLYPTODONTIDÆ Burmeister.

Burmeister, H. 1879 B, 421.
Hay, O. P. 1902 A, 580.
1927 E, 77 ("glyptodons").
Abel, O. 1912 F, 377, 562.
1913 B, 727 (Glyplodontidæ).
1914 A, 111, 114 ("glyptodontiden").
1921 A, 188 ("glyptodontiden").
Ameghino, F. 1889 A, 1014 (Glyptodontidæ); 1015 (Hoplophoridæ).
1897 B, 260 ("glyptodons").
1912 A, 70.
Arldt, T. 1907 A, 239, 243.
1907 D, 656.
1912 A, 699 (Glyptodontidæ); 744 (Glyptodontinæ).
Beddard, F. E. 1902 A, 184.
Boule, M. 1891 A, 40 ("glyptodontes").
Boule and Thevenin 1920 A, 208 ("glyptodontes").
Brown, B. 1912 C, 175.
Case, E. C. 1898 C, 827 (Glyptodonta).
Cope, E. D. 1891 N, 70.
Dall and Harris 1892 A, 284.
Frech and Geinitz 1903 A, 36 (Glyptodontia).
Gervais and Ameghino 1880 A, 177 ("glyptodontidés").
Gill, T. 1872 B, 24 (Hoplophoridæ).
1886 A, 65.
1910 A, 56 (Hoplophoridæ).
Hay, O. P. 1923 A, 5.
Hogben, L. T. 1919 A, 73.
Huxley, T. H. 1864 B, 108 (Hoplophoridæ).
1865 B, 48 (Hoplophoridæ).
Jaekel, O. 1909 C, 706 ("glyptodonten").
Janensch, W. 1904 A, 67 ("glyptodontiden").
Kampfen, P. N. 1905 A, 496 (Glyptodontidæ).
Lane, H. H. 1909 A, 25.
1910 A, 914.
Lönnberg, E. 1910 A, 65 (Glyptodontidæ).
Matthew, W. D. 1909 C, 120.
1912 F, 301 ("glyptodonts").
1913 B, 291.
1915 K, fig. 37 ("glyptodonts").
1928 B, 977 ("glyptodonts").
Moodie, R. L. 1923 B, 245 ("glyptodonts").
Osborn, H. F. 1910 B, 616.
Palacký, J. 1902 A, 2 ("glyptodontinen").
Reynolds, S. H. 1897 A, 459.
Roger, O. 1896 A, 101 (Glyptodontidæ); 103 (Hoplophoridæ).
Schulthess, B. 1920 A, 50, 64, 88, 110.
Scott, W. B. 1905 B, 115.
1913 A, 592.
1916 A, 116 ("glyptodonts").
1917 A, 133, 135 ("glyptodonts").
1928 B, 259 ("glyptodonts").
Sinclair, W. J. 1905 D, 115, 494.
Steinmann, G. 1907 A, 474 (Glyptodontia).
1909 A, 70 ("glyptodonten").
Terra, P. 1911 A, 261 ("glyptodonten").
Trouessart, E. L. 1905 A, 805.
Weber, M. 1904 A, 464, 466.
Weber and Abel 1928 A, 223, 227 (Glyptodontidæ, Glyptodontinæ).
Wegner, R. N. 1922 A, 460.
Winge, H. 1915 A, 220, 239 (Glyptodontini).
1923 A, 282, 298, 301, 305 (Glyptodontini).
Zittel and Schlosser 1911 A, 418.
1923 A, 502.

GLYPTODON Owen. Type *G. clavipes* Owen.

Hay, O. P. 1902 A, 580.
Abel, O. 1908 D, (212).
1909 D, (226).
1912 F, 591, 623, fig. 458.
1913 B, 728, figs. 36, 37.
1914 A, 115, fig. 79.
1919 A, 781, figs. 586, 589, 590.
1920 A, 429, figs. 650, 651.
Ameghino, F. 1883 A, 4, 28.
1885 A, 170.
1889 A, 1013.
1912 A, 60.
1912 B, 178.
Beddard, F. E. 1902 A, 184.
Boule, M. 1902 B, 914 ("glyptodonte").
1923 A, 492.
Boule and Thevenin 1920 A, 206.
Brandes, G. 1900 A, 106 ("glyptodonten").
Bronn, H. G. 1848 A, 536.
1849 A, 712.
Brown, B. 1912 C, 169, 172, 175.
Case, E. C. 1898 C, 828.
Depéret, C. 1907 B ("glyptodontes").
Frets, G. P. 1910 A, 574.
Gervais and Ameghino 1880 A, 197.
Gidley, J. W. 1912 C, 19 ("gylyptodont").
1926 A, 92.
Giebel, C. G. 1855 A, 62, pl. xi.
1883 A, pls. xxix, xlv, lxxvi, lxxxix.
Grandidier, G. 1912 A, 401.
Hase, A. 1913 A, 125.
Hay, O. P. 1910 D, 372 ("glyptodonts").
1916 D, 111.
1918 B, 12, 13, 14.
1919 A, 311.
1923 A, 485.
1926 E, 388 ("glyptodons").
1928 B, 238.
Heilprin, A. 1887 A, 338, 339.
Hoernes, R. 1886 A, 662.
Howes, G. B. 1903 A, 327.
Hutchinson, H. N. 1910 A, 292, pl. liii.
Huxley, T. H. 1863 B, 316.
1863 D, 205, 233, figs. 1-4.
1864 B, 108.
1865 B, 37, pls. v-x.
Ihering, H. 1909 A, 285.
Janensch, W. 1904 A, 67, figs. 1-8.
Kampfen, P. N. 1905 A, 496.
Kingsley, J. S. 1925 A, 50.

Koken, E. 1893 B, 494.
Lankester, E. R. 1905 A, 170, fig. 120.
Leche, W. 1887 A.
Lobley, J. L. 1908 A, 213, 217.
Lydekker, R. 1894 B, 32.
Mantell, G. A. 1844 A, 843, fig. 156.
Matthew, W. D. 1910 G, 159.
1915 A, 260.
1924 E, 748.
Osborn, H. F. 1905 I, 108.
1910 A, 213 ("glyptodonts").
1910 B, 542.
1916 E, 505, figs. 1, 2.
1917 B, 148, fig.
Oswald, F. 1909 A, 125.
Owen, R. 1839 F, 156.
1845 B, 323, pl. lxxxvi, figs. 1-3.
1860 E, 392, figs.
1868 A, 882.
Palacký, J. 1902 A, 1.
Palmer, T. S. 1904 A, 298, 816.
Pictet, F. J. 1853 A, 273.
Reche, O. 1905 B, 245.
Reynolds, S. H. 1897 A, 542.
Roth, S. 1908 A, 132, 138, 140.
Schlosser, M. 1899 I, 351.
Schmidt, O. 1886 A, 120 ("glyptodons").
Schulthess, B. 1920 A, 10, 90, 111, pl. i; pl. iii, figs. 4, 6; pl. iv, fig. 4.
Schwarz, E. 1924 A, 422 ("glyptodons").
Scott, W. B. 1905 B, 494.
1913 A, 219, 618, 681.
Serres, M. 1863 A, 885.
1863 B, 1028.
Sinclair, W. J. 1905 D, 109, 494.
Smith, G. E. 1903 B, 48.
Steinmann, G. 1907 A, 475.
1909 A, 67, figs. 1, 6.
Trouessart, E. L. 1905 A, 808.
Veatch, A. C. 1906 A, 51 ("glyptodon").
Wallace, A. R. 1876 A, I, 147.
Weber, M. 1904 A, 82, 150, 165, 451, 466, figs. 63, 113, 121, 354, 355.
Weber and Abel 1928 A, 196, 227, figs. 119, 120, 141, 143.
Weber and Burlet 1927 A, 106, 237, figs. 77, 175.
Wegner, R. N. 1922 A, 460, fig. 30.
Winge, H. 1915 A, 120, 240, 282, pls. xx-xxiii.
1923 A, 303.
Woodward, H. 1904 B, 156.
1923 C, 74, fig. 68.
Zittel and Schlosser 1911 A, 419.
1923 A, 502, figs. 622, 623.

Glyptodon petaliferus Cope.

Hay, O. P. 1902 A, 580 (G. euphractus, part; G. petaliferus); 581 (G. reticulatus, part).
Cook, H. J. 1927 A, 117 ("Glyptodon").
1927 C, 247 ("Glyptodon").
Deussen, A. 1924 A, 110.
Dumble, E. T. 1894 A, 564.
Gidley, J. W. 1926 A, 91-93.
Hay, O. P. 1916 D, 107, pls. iii-v.
1917 B, 14.
1923 A, 39, 381.
1924 D, 378.
1926 C, 2, pl. i, fig. 1; pl. ii, fig. 3.
1927 C, 282 ("glyptodons").
1927 D, 286.
1928 C, 425, 426.
Leidy, J. 1889 E, 25, pl. iv, fig. 9; pl. vi, fig. 1.
1892 A, 129 (G. euphractus).
Matson and Clapp 1909 A, 136 (Hoplophorus euphractus); 137 (Glyptodon petaliferus).
Osborn, H. F. 1910 B, 368 ("Glyptotherium").
Spier, L. 1928 A, 161 ("glyptodon").

The Florida remains here referred to *G. petaliferus* belong possibly to *G. rivipacis*.

Pleistocene (Early); Texas, Oklahoma, Florida?.

Glyptodon rivipacis Hay.

Hay, O. P. 1923 A, 40, 381.
1902 A, 581 (G. reticulatus, part).
Leidy, J. 1889 E, 25, 26, pl. v, figs. 11, 12 ("glyptodon").
1892 A, 129 (Glyptodon sp.).
Spencer, J. W. 1895 A, 137 (G. petaliferus).

Pleistocene (Early); Florida.

Glyptodon sp. indet.

Deussen, A. 1924 A, 108. Pleistocene (Lissie); Texas.
Freudenberg, W. 1910 A, 5. Pleistocene; Mexico.
Furlong, E. L. 1925 A, 139. Pleistocene; Tequixquiac, Mexico.
Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1927 D, 274, 287. Pleistocene; Florida, Texas.
Hrdlička, A. 1926 A, 7 ("glyptodon").
Matthew, W. D. 1925 B, 222 ("Glyptodon"). Staked Plains; Texas.
Troxell, E. L. 1917 A, 89. Pleistocene (Early); Texas.

GLYPTOTHERIUM Osborn. Type *G. texanum* Osborn.

Osborn, H. F. 1903 B, 491.
Ameghino, F. 1912 B, 178.
Andrews, C. W. 1908 D, figs. 12-16, 19, 20.
Anonymous 1921 C, 558, fig.
Brown, B. 1912 C, 175.
Diener, C. 1912 A, 216.
Gidley, J. W. 1926 A, 91.
Haug, E. 1911 A, 1706, 1886.
Hay, O. P. 1923 A, 2, 4, 15.
Matthew, W. D. 1915 A, 262.
1918 H, 647.
1924 E, 748.
Merriam, J. C. 1919 A, 531.
Osborn, H. F. 1901 F, 499, 622 (Glyptodon).
1903 G, 667.
1909 D, 23, 65, 82.
1910 B, 360-366, 542, fig. 170.
1912 G, 250.
1918 A, 30.
1925 A, 8.
Palmer, T. S. 1904 A, 298, 816.
Scharff, R. F. 1911 A, 153.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 221, 592.
Sinclair, W. J. 1905 D, 134.
Trouessart, E. L. 1905 A, 809.

Weber and Abel 1928 A, XXII, 228.
Winge, H. 1915 A, 313.
1923 A, 341, 353.
Zittel and Schlosser 1911 A, 420.
1923 A, 504, 680.

Glyptotherium arizonæ Gidley.

Gidley, J. W. 1926 A, 91, pls. xl-xliv; text-fig. 4.
1922 B, 120, 127, pl. xxxv, fig. 11 (This genus?).
Hay, O. P. 1927 D, 3, 136, 137.
Lower Pleistocene; Arizona.

Glyptotherium texanum Osborn.

Osborn, H. F. 1903 B, 492, pl. xliii.
Gidley, J. W. 1902 A, 24 ("glyptodont").
1903 C, 619, 627.
Matthew, W. D. 1909 C, 120.
1921 G, 558, fig. ("Glyptotherium").
Merriam, J. C. 1917 A, 435.
Osborn, H. F. 1905 H, 223.
1905 I, 108, pl. xv.
1910 B, 365, figs. 169, 170.
Scott, W. B. 1905 B, 134.
Trouessart, E. L. 1905 A, 809.
Pliocene (Blanco); Texas.

Glyptotherium sp. indet.

Matthew, W. D. 1924 G, 631 (This genus?).
Pliocene; Texas.

HOPLOPHORIDÆ Huxley.

Huxley, T. H. 1864 B, 108.
Ameghino, F. 1891, Rev. Argent. Hist. Nat., entr. 4a, 251 (*Sclerocalyptus* to replace *Hoplophorus* supposed preoccupied).
Brown, B. 1912 C, 175, 176 (Sclerocalyptidæ).
Gill, T. 1886 A, 66 ("hoplophorines").
Trouessart, E. L. 1897 A, 129 (Sclerocalyptinæ).

BRACHYOSTRACON Brown, B. Type *B. cylindricus* Brown.

Brown, B. 1912 C, 169.
Anonymous 1921 C, 558, fig.
Gidley, J. W. 1926 A, 91.
Matthew, W. D. 1915 A, 262.
Zittel and Schlosser 1923 A, 504.

Brachyostracon cylindricus Brown, B.

Brown, B. 1912 C, 169, pls. xvi-xviii; text-figs. 2, 3.
Freudenberg, W. 1921 A, 140.
Pleistocene (Early); Mexico.

Brachyostracon mexicanus Cuatáparo and Ramirez.

Cuatáparo and Ramirez 1875 A, 362, pl. (Glyptodon).

Barcena, M. 1882 A, 20 ("gliptodon").
Brown, B. 1912 C, 168, 171, pls. xiii-xv.
Cope, E. D. 1884 G, 2 (Glyptodon sp. indet.).
Espinosa, L. 1902 A, 27, 2 pls. (Glyptodon clavipes).
Felix and Lenk 1891 A, 138 (Glyptodon).
Freudenberg, W. 1921 A, 140.
Gidley, J. W. 1926 A, 91.
Osborn, H. F. 1905 E, 931, 932 (Glyptodon).
Villada, M. M. 1903 A, 443, pl. i (Glyptodon).
Pleistocene (Early); Mexico.

Brachyostracon sp. indet.

Rath, G. 1886 A, 105 ("Glyptodon"). Pleistocene; Mexico.

Suborder PALÆANODONTA Matthew.

Matthew, W. D. 1918 H, 621.
1923 B, 109.
1928 A, 71.
Simpson, G. G. 1927 H, 294.
Weber and Abel 1928 A, 187, 237, 238.

METACHEIROMYIDÆ Wortman.

Wortman, J. L. 1903 A, XV, 411; XVI, 347.
Gregory, W. K. 1916 B, 261.
Matthew, W. D. 1909 C, 102.
1914 B, 387.
1918 H, 10, 62.
Matthew, W. D. 1921 D, 214.
Osborn, H. F. 1909 D, 97.
Palmer, T. S. 1904 A, 753, 903.
Schlosser, M. 1905 A, 331.

METACHEIROMYS Wortman. Type *M. marshi* Wortman.

Wortman, J. L. 1903 A, XVI, 347.
Abel, O. 1922 C, 291.
Ameghino, F. 1906 E, 234.
Haug, E. 1911 A, 1528.
Hubrecht, A. A. W. 1908 A, 161.
Matthew, W. D. 1906 B, 361.
1909 C, 102.
1909 D, 308, 547.
1915 A, 260.
1915 F, 431.
Matthew, W. D. 1915 G, 383.
1915 K, 470, figs. 37, 39.
1918 H, 620, 647, fig. 64.
1923 B, 109.
1928 A, 71.
1928 B, 965, 977.
Mead, C. S. 1906 A, 480.
Osborn, H. F. 1904 A, 164.
1905 H, 213.
1905 I, 99.

Osborn, H. F. 1909 D, 50, 52.
1910 B, 162, 163, 164, 541, fig. 61.
Palmer, T. S. 1904 A, 417, 903.
Scharff, R. F. 1909 A, 517, 518 ("armadillo").
1911 A, 244, 401.
Schlosser, M. 1905 A, 328.
1905 B, 125.
Scott, W. B. 1913 A, 269, 592, 616.
Simpson, G. G. 1927 H, 294.
Stehlin, H. G. 1916 B, 1502.
Weber and Abel 1928 A, 237, 238.
Woodward, A. S. 1910 C, 13.
Wortman, J. L. 1903 A, xv, 401.
Zittel and Schlosser 1911 A, 550 (Metachiromys).
1923 A, 505, 643, 667, 684 (Metachiromys).

Metacheiromys dasypus Osborn.

Osborn, H. F. 1904 A, 164.
Matthew, W. D. 1909 C, 97.
1918 H, 641.
Schlosser, M. 1905 B, 126.
Middle Eocene (Bridger); Wyoming.

Metacheiromys marshi Wortman.

Wortman, J. L. 1903 A, xvi, 347, figs. 105-109.
Abel, O. 1908 C, (38).
Matthew, W. D. 1909 C, 97.
1918 H, 641.
Schlosser, M. 1905 B, 126.
Middle Eocene (Bridger); Wyoming.

Metacheiromys tatusia Osborn.

Osborn, H. F. 1904 A, 165.
Abel, O. 1922 C, 291, fig. 245.
Matthew, W. D. 1909 C, 97.
1918 H, 641.
Osborn, H. F. 1910 B, 164, fig. 64.
Schlosser, M. 1905 B, 126.
Middle Eocene (Bridger); Wyoming.

Metacheiromys sp. indet.

Matthew, W. D. 1909 C, 97. Middle Eocene (Bridger); Wyoming.

PALÆANODON Matthew. Type *P. ignavus* Matthew.

Matthew, W. D. 1918 H, 621, 643, figs. 61, 62, 65.
Abel, O. 1922 C, 292.
Gregory, W. K. 1921 A, 69.
Matthew, W. D. 1915 A, 260, fig. 30 (No description).
1915 K, 470, fig. 37 (No description).
1923 B, 109.
1928 A, 71.
1928 B, 965, 977.
Weber and Abel 1928 A, 237, 238.

Palæanodon ignavus Matthew.

Matthew, W. D. 1918 H, 622, figs. 39-56, 61, 62, 65-68.
Abel, O. 1922 C, 292.
Gregory, W. K. 1921 A, 69.
Paleocene (Clarks Fork): Lower Eocene (Wasatch); Wyoming.

Palæanodon parvulus Matthew.

Matthew, W. D. 1918 H, 640, fig. 57.
Lower Eocene (Wasatch); Wyoming.

EPOICOTHERIIDÆ Simpson.

Simpson, G. G. 1927 H, 285.

EPOICOTHERIUM Simpson. Type *Xenotherium unicum* (Douglass).

Simpson, G. G. 1927 H, 285.
Unless otherwise indicated the authors, as cited, use the name *Xenotherium*.
Abel, O. 1914 A, 54.
Boulenger, G. A. 1918 B, 198.
Douglass, E. 1905 A, 204, 211 (Xenotherium; preoccupied by Ameghino, 1904).
Gregory, W. K. 1910 A, 258.
1912 C, 193.
Joleaud, L. 1919 A, 705.
Lydekker, R. 1907 E, 681.
1908 A, 506.
Matthew, W. D. 1906 A, 787.
1909 C, 110.
1910 A, 33.
1913 A, 308.
1915 A, 270.
1928 A, 70.
Osborn, H. F. 1910 B, 520.
Scharff, R. F. 1911 A, 246, 404.
Schlosser, M. 1911 A, 166.
Simpson, G. G. 1928 B, 182.
Weber and Abel 1928 A, 128.
Winge, H. 1917 A, 193.
Zdansky, O. 1926 A, 231.
Zittel and Schlosser 1911 A, 366.
1923 A, 444.

Epoicotherium unicum (Douglass).

Douglass, E. 1905 A, 204, pl. xxii, figs. 13-16 (Xenotherium, preoccupied).
Gregory, W. K. 1910 A, 258 (Xenotherium).
Lydekker, R. 1907 C, 451 (Xenotherium).
Matthew, W. D. 1909 C, 103 (Xenotherium).
Simpson, G. G. 1927 H, 285, pl. xxiv (Epoicotherium).
Weber and Abel 1928 A, 128, fig. 128 (Xenotherium).
Zdansky, O. 1926 A, 231, fig. 2 (Xenotherium).
Lower Oligocene (Titanotherium beds); Montana.

Order INSECTIVORA Latreille.

Latreille, P. A. 1825 A, 48.
Hay, O. P. 1902 A, 737.
Abel, O. 1901 B, 313 ("insectenfresser").
Abel, O. 1908 F, (234) ("insektivoren").
1912 F, 173, 294, 679.
1913 B, 710.

Abel, O. 1914 A, 50 ("insectivoren").
1919 A, 723.
1920 A, 419.
1921 A, 138 ("insectfresser").
Adloff, P. 1903 A, 370 ("insectivoren").
1910 B, 230.
1913 B, 190 ("insectivoren").
1916 A, 593.
1917 B, 350 ("insectivoren").
1920 A, 188 ("insectivoren").
Ärnbäck-Christie-Linde, A. 1907 A, 463.
1912 A, 620 ("insectivores").
Allis, E. P. 1919 D, 219.
Ameghino, F. 1889 A, 1016.
1905 C, 439.
1906 A, 389 ("insectivores").
Anderson, R. J. 1912 D, 252.
Anthony, R. 1912 A ("insectivoren").
Arldt, T. 1907 C, 676.
1907 D, 660.
1912 A, 686.
Bardeleben, K. 1885 B, 85 ("insectivoren").
1885 C, 150 ("insectivoren").
1889 B, 259.
1904 A, 111 ("insectivoren").
Bardenfleth, K. S. 1913 A, 87.
Bayer, F. 1897 A, 149.
Beddard, F. E. 1902 A, 508.
Behlen, H. 1906 A, 197 ("insectivoren").
Bertelli, D. 1909 A, 180 ("insettivori").
Beyer, H. 1908 A, 81 ("insektenfresser").
Black, N. 1900 A, 18.
Boas, J. E. V. 1914 B, 577 ("insectivoren").
Bonaparte, C. L. 1832 A, 285.
1833 A, 1043.
Brandt and Woldrich 1887 A, 18.
Broom, R. 1897 B, 252.
1902 D, 549.
1903 I, 549.
1911 C, 319.
1914 F, 296 ("insectivores").
1915 A, 162.
Carter, J. T. 1922 A, 603.
Carus, V. 1875 A, 86.
Carus and Engelmann 1861 A, 1300, 1753.
Case, E. C. 1899 B, 182.
Chandler, A. C. 1914 B, 134.
Chapman, H. C. 1904 A, 149.
Chardin, T. 1922 A, 16 ("insectivores").
Clark and Sonntag 1926 A, 454, 459 ("insectivores").
Cockerell, Miller and Prinz 1914 A, 350.
Cope, E. D. 1875 Y, 445, 447.
1885 BB, 72.
1891 N, 73, 90.
Coues, E. 1877 C, 631.
Cuvier, F. 1825 A, 68 ("insectivores").
Cuvier, G. 1825 A, IV, 258 ("insectivores").
Dana, J. D. 1863 C, 334 ("insectivores").
Dependorf, T. 1907 C, 109 ("insectivoren").
Depéret, C. 1905 C, 703 ("insectivores").
1908 A, 112.
Dobson, G. E. 1891 A, 349.
Doran, A. H. G. 1878 A, 432.
Earle, C. 1897 A, 570, 681.
1897 B, 312.
Eggeling, H. 1904 A, 94 ("insectivoren").
Elliot, D. G. 1901 A, 366.
Frassetto, F. 1915 A.
Frey, H. 1911 A, 395.
Fuchs, H. 1909 B, 142 ("insectivoren").
1914 A, 38 ("insectivoren").
1926 B, 2.
Gadow, H. 1913 A, 124 ("insectivores").
Gaupp, E. 1906 B, 850.
1911 B, 101.
1911 D, 621 ("insectivoren").
1912 B, 219 ("insectivoren").
1913 A, 63.
Gegenbaur, C. 1864 C, 182 ("insecter").
1888 A, 396 ("insectivoren").
Gervais, P. 1852 A, 10 ("insectivores").
1859 A, 51 ("insectivores").
Ghigi, A. 1900 B, 99 ("insettivori").
Giebel, C. G. 1883 A ("insectivoren").
Gill, T. 1886 B, 134.
Gottlieb, H. 1914 A, 185.
Gray, J. E. 1821 A, 299 (Insectivoræ).
Gregory, W. K. 1910 A, 518.
1910 C, 297.
1912 C, 192.
1916 A, 248 ("insectivores").
1920 A, 163, 239.
1921 A, 70, 171.
1922 A, 538.
1926 B, 415.
Gregory and Hellman 1926 A, 11 ("insectivores").
Gregory and Simpson 1920 A, 3.
Haeckel, E. 1868 A, 484.
1873 A, 544.
Hasse and Schwarck 1870 A, 89.
Heilprin, A. 1887 A, 345.
Hensel, R. 1879 A, 531 ("insectivoren").
Hertz, M. 1925 A ("insectivoren").
Hilzheimer, M. 1913 A, 521, 564.
Hoernes, R. 1886 A, 700.
Hogben, L. T. 1919 A, 76.
Howes, G. B. 1891 A, 153.
Hubrecht, A. A. W. 1897 A, 5, 40.
1908 A, 159.
Huxley, T. H. 1859 D, 435.
1863 E, 553.
1868 C, 314.
1870 F, 527, 537.
1879 A, 404.
1880 D, 452.
1880 E, 459.
Jacobi, A. 1921 A, 216.
Jaekel, O. 1911 A, 209 (Insectivori).
Kampfen, P. N. 1905 A ("insectivoren").
1922 A, 56.
Kaudern, W. 1910 A, 561 ("insectivoren").
Kingsley, J. S. 1925 A, 205, 294.
Köstlin, O. 1844 A ("insectivoren").
Koken, E. 1893 B, 374, 480, 517.
Kükenthal, W. 1913 A, 677.
Lankester, E. R. 1908 A, 324.
Lataste, F. 1887 A, 270 ("insectivores").
Leboucq, H. 1884 A, 73 ("insectivores").
Leche, W. 1887 A.
1900 A, 1007.
1902 A, 28.
1905 A, 578 ("insectivoren").
1907 A, 50.
Le Damany, P. 1903 G, 322 ("insectivores").

Leunis and Ludwig 1883 A, 206.
Lobley, J. L. 1908 A, 194.
Lubosch, W. 1911 A, 329 ("insectivoren").
1911 B, 744 ("insectivoren").
1914 A, 425 ("insectivoren").
Lull, R. S. 1906 B, 558.
1917 B, 308, 322, 338.
Lydekker, R. 1903 D, 101.
1910 F, 657.
Major, C. J. F. 1880 A, 40.
1899 B, 62.
1901 A, 150.
Martins, C. 1857 A ("insectivores").
Matthew, W. D. 1905 C, 298.
1905 D, 46.
1906 A, 787.
1907 B, 532 ("insectivores").
1909 C, 128.
1909 D, 298, 308, 334, 502-507, 551.
1910 I, 158.
1912 E, 256.
1913 A, 307.
1914 H, 351.
1915 A, 224.
1915 F, 465.
1915 K, 439, 444, 470.
1916 A, 480.
1916 I, 108.
1918 H, 565.
1918 I, 658.
1921 D, 212, 214.
1928 B, 948, 953, 965, 975.
Mead, C. S. 1906 A, 480.
Meunier, S. 1903 A, 776 ("insectivores").
Miller, G. S. 1912 A, 1.
1920 B, 190.
Mitchell, P. C. 1905 A, 490.
Mivart, St. G. 1868 A, 117.
Moodie, R. L. 1922 C, 348, 369.
Mysberg, W. A. 1917 A, 648.
Nopcsa, F. 1923 E, 1047.
Oehngren, S. 1919 A, 165.
O'Harra, C. C. 1910 A, 84, 126, 130.
Oken, L. 1823 A, 304 ("spitzmausartige thiere").
Osborn, H. F. 1898 U, 686.
1899 J, 415.
1902 E, 356, fig. 1.
1905 I, 99.
1905 N, 241 ("insectivores").
1907 G, 1, 12, 117, 225.
1909 D, 128.
1910 B, 619.
1925 B, 18.
Owen, R. 1857 E.
1858 A, 22.
1868 A, 886.
Palacký, J. 1902 B, 150 ("insectivoren").
1903 C, 342.
Pander and Alton 1831 A, 17 ("insectivoren").
Parker, W. K. 1888 C, 397 ("insectivores").
Parker and Haswell 1897 A, 517.
Peterson, O. A. 1912 B, 164.
Pictet, F. J. 1853 A, 168 ("insectivores").
Pocock, R. I. 1916 G, 549.
Puccioni, N. 1908 A, 41.
Rehs, J. 1914 A, 2, 103.
Retzius, A. 1849 A, 615.
Reynolds, S. H. 1897 A, 544.
Römer, F. 1907 A, 70 ("insektivoren").
Scharff, R. F. 1911 A, 142, 201, 399.
Schlosser, M. 1897 B, 18 ("insectivoren").
1898 B, 360.
1899 J, 353.
1901 F, 299.
1905 A, 324.
1910 A, 501 ("insectivoren").
1911 A, 147, 157 ("insectivoren").
Schmidt, O. 1886 A, 291.
Schwarz, E. 1924 A, 419.
Sclater, P. L. 1875 A, 209.
Scott, W. B. 1896 C, 308.
1905 B, 365.
1913 A, 268, 276, 683.
Seeley, H. G. 1878 A, 225.
Seydel, O. 1899 A, 517 ("insectivoren").
Simpson, G. G. 1928 C, 182 ("insectovores").
1928 J, 1, 8.
Sinclair, W. J. 1905 D, 365.
Smith, G. E. 1912 A, 425.
Steinmann, G. 1907 A, 469.
Stromer, E. 1902 B, 554, 560 ("insectivoren").
1912 A, 175, 243.
1916 A, 404.
Taschenberg, O. 1899 A, 4441.
Terra, P. 1911 A, 264.
Thacker, A. G. 1922 A, 603.
Tims, H. W. M. 1902 A, 321.
1905 B, 1785.
Todd, T. W. 1922 A, 268.
Tornier, G. 1891 A, 185 ("insectivoren").
Trouessart, E. L. 1904 A, 121.
Underhill, B. M. 1910 A, 76, 85.
Vallois, H. V. 1921 B, 975 ("insectivores").
Wagner, R. 1843 A, 12.
Wallace, A. R. 1876 A, I, 496; II, 186, 191, 541.
1894 A, 435.
Watson, D. M. S. 1916 A, 354.
Weber, M. 1904 A, 362.
Weber and Abel 1928 A, 89, 93, 111, 123, 888.
Weber and Burlet 1927 A.
Weidenreich, F. 1925 A, 39 ("insectivoren").
Wilder, B. 1872 B, 320.
Williston, S. W. 1912 E, 261.
Winge, H. 1896 A, 125 ("insectivores").
1917 A, 83-203.
1923 A, 116, 123, 183.
Woodward, A. S. 1895 F, 736.
Woodward, H. 1904 B, 163.
Woodward, M. F. 1894 B, 450.
Wortman, J. L. 1901 B, 325.
1902 A, XIII, 45.
1903 A, 430.
1920 A, 1.
1921 A, 184 ("insectivores").
Zaaijer, T. 1894 A, 339.
Zittel and Schlosser 1911 A, 364.
1923 A, 443.

Suborder LIPOTYPHLA Haeckel.

Haeckel, E. 1866, Gen. Morphol.
Carlsson, A. 1922 A, 231.
Carter, J. T. 1922 A, 603.
Clark and Sonntag 1926 A, 463.

Gill, T. 1886 B, 136 (Zalambdodonta).
Gregory, W. K. 1910 A, 464.
1912 C, 193.
Haeckel, E. 1868 A, 484.
Hilzheimer, M. 1913 A, 565.
Jaekel, O. 1911 A, 210.
Matthew, W. D. 1928 B, 950, 975 ("zalambdodonts").
Osborn, H. F. 1910 B, 519.
Simpson, G. G. 1928 J, 3, 8, 11 ("zalambdodont group").
Todd, T. W. 1922 A, 269 ("lipotyphlous").
Weber and Abel 1928 A, 97, 115, 117, 126.
Weber and Burlet 1927 A, xiii.
Winge, H. 1923 A, 183.

Superfamily PANTOLESTOIDÆ, new form.

Hay, O. P. 1902 A, 648 (Pantolestoidea).
Cope, E. D. 1891 N, 89 (Pantolestoidea).
A group of uncertain position.

PANTOLESTIDÆ.

Hay, O. P. 1902 A, 648.
Abel, O. 1913 B, 711.
1914 A, 52 ("pantolestiden").
1919 B, 727.
1922 C, 290.
Arldt, T. 1907 D, 671.
1912 A, 700.
Chardin, T. 1922 A, 55 ("pantolestidés").
Cope, E. D. 1891 N, 89.
Dollo, L. 1889 D, 681.
Gregory, W. K. 1912 C, 194.
Lydekker, R. 1910 F, 657.
Matthew, W. D. 1905 C, 298.
1909 C, 92, 93, 96, 101 (Pantolestidæ); 95 (Trigonolestidæ).
1909 D, 299, 508, 522.
Matthew, W. D. 1914 B, 387.
1918 H, 586, 590.
1921 D, 214.
Osborn, H. F. 1909 D, 45, 46, 52.
1910 B, 109, 125, 519 (Pantolestidæ); 127, 547 (Trigonolestidæ).
Palacký, J. 1903 B, 306, 307 ("pantolestiden").
Schlosser, M. 1899 I, 349 (Trigonolestidæ).
Scott, W. B. 1913 A, 361 (Trigonolestidæ).
Van Bemmelen, J. F. 1918 A, 571.
Van den Broeck, A. J. P. 1912 A, 784.
Weber, M. 1904 A, 664, 693.
Weber and Abel 1928 A, 125, 126.
Winge, H. 1923 A, 190.
Zittel and Schlosser 1911 A, 371.
1923 A, 449, 667.

PENTACODON Scott. Type *Chriacus inversus* Cope.

Hay, O. P. 1902 A, 745.
Granger, W. 1917 A, 825.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1905 C, 298.
1909 C, 101.
1909 D, 523.
1921 D, 212.
Osborn, H. F. 1909 D, 34.
Palmer, T. S. 1904 A, 521, 811.
Simpson, G. G. 1927 B, 3.

Pentacodon inversus (Cope).

Hay, O. P. 1902 A, 745.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Simpson, G. G. 1928 A, 4, fig. 2. (This genus and species?).
Trouessart, E. L. 1904 A, 159.
Paleocene (Torrejon); New Mexico.

PROPALÆOSINOPA Simpson. Type *P. albertensis* Simpson.

Simpson, G. G. 1927 B, 2.

Propalæosinopa albertensis Simpson.

Simpson, G. G. 1927 B, 1, 2, figs. 2, 3.
Upper Cretaceous (Paskapoo); Alberta.

PALÆOSINOPA Matthew. Type *P. veterrima* Matthew.

Matthew, W. D. 1901 A, 6, 19, 20, 22.
Hay, O. P. 1902 A, 754.
Broom, R. 1909 C, 133.
Chardin, T. 1922 A, 55, 80, pl. iii.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1905 C, 298.
1909 C, 101.
1909 D, 464, 523.
1915 K, 421.
1918 H, 581, 586.
Osborn, H. F. 1907 G, 127, fig. 76.
1909 D, 45.
1910 B, 125, 519.
1912 G, 236, fig. 3.
Palmer, T. S. 1904 A, 504, 811.
Schlosser, M. 1911 A, 77.
Simpson, G. G. 1927 B, 3.
Simpson, G. G. 1928 A, 5, 9.
Trouessart, E. L. 1904 A, 170.
Weber and Abel 1928 A, 126.
Wortman, J. L. 1901 B, XII, 285.
1902 A, XIII, 433.
Zittel and Schlosser 1911 A, 371.
1923 A, 449, 666.

Palæosinopa didelphoides (Cope).

Hay, O. P. 1902 A, 739 (Ictops).
Douglass, E. 1905 A, 213 (Ictops?).
Matthew, W. D. 1901 A, 23 (Palæosinopa?).
1909 C, 93.
1918 H, 588, fig. 16.
Trouessart, E. L. 1904 A, 171.
Eocene (Wind River); Wyoming.

Palæosinopa lutreola Matthew.

Matthew, W. D. 1918 H, 589, figs. 17, 18.
Chardin, T. 1922 A, 82.
Lower Eocene (Wasatch); Wyoming.

Palæosinopa veterrima Matthew.

Matthew, W. D. 1901 A, 22, fig. 8.
Hay, O. P. 1902 A, 754.
Matthew, W. D. 1909 C, 93.
1918 H, 590, fig. 19.
Trouessart, E. L. 1904 A, 170.
Lower Eocene (Wasatch); Wyoming.

PANTOLESTES Cope. Type *P. longicaudus* Cope.

Cope, E. D. 1872 OO, 2.
Hay, O. P. 1902 A, 648 (Pantolestes); 740 (Anisacodon, Passalacodon).
Abel, O. 1913 B, 711.
1914 A, 52.
1922 C, 290.
Chardin, T. 1922 A, 55, 88.
Gregory, W. K. 1912 C, 194.
Haug, E. 1911 A, 1528.
Hilzheimer, M. 1913 A, 566.
Koken, E. 1893 B, 481.
Matthew, W. D. 1903 C, 229 (Anisacodon, Passalacodon).
1905 C, 298.
1909 C, 101 (Pantolestes, Anisacodon, Passalacodon).
1909 D, 523, 531, 533.
1918 H, 567, 586.
Osborn, H. F. 1898 V, 206.
1910 B, 161, 519.
Palacký, J. 1903 B, 307.
Palmer, T. S. 1904 A, 510, 927 (Pantolestes); 103, 870 (Anisacodon); 517, 870 (Passalacodon).
Schlosser, M. 1899 T, 453.
1901 D, 466.
1903 A, 292.
Seeley, H. G. 1886 A, 476.
Stehlin, H. G. 1906 A, 669.
Trouessart, E. L. 1905 A, 648.
Weber, M. 1904 A, 664, 693.
Weber and Abel 1928 A, 126, 354.
Winge, H. 1917 A, 175.
Wortman, J. L. 1903 A, xv, 431.
Zierler, F. E. 1905 A, 515.
Zittel and Schlosser 1911 A, 371.
1923 A, 449.

Pantolestes elegans (Marsh).

Hay, O. P. 1902 A, 740 (Anisacodon).
Matthew, W. D. 1909 C, 96 (Anisacodon).
1909 D, 532, 533, pl. xlix, fig. 2.
Middle Eocene (Bridger); Wyoming.

Pantolestes intermedius Matthew.

Matthew, W. D. 1909 D, 533, text-fig. 113.
Middle Eocene (Bridger); Wyoming.

Pantolestes longicaudus Cope.

Cope, E. D. 1872 OO, 2 (P. longieundus, *errore*).
Hay, O. P. 1902 A, 649 (P. longicaudus); 740 (Passalacodon litoralis).
Matthew, W. D. 1909 C, 96 (P. longicaudus, Passalacodon littoralis).
1909 D, 522, 532.
Osborn, H. F. 1902 C, 173.
Stehlin, H. G. 1906 A, 669.
Trouessart, E. L. 1905 A, 648 (P. longicaudatus).
Middle Eocene (Bridger); Wyoming.

Pantolestes natans Matthew.

Matthew, W. D. 1909 D, 533, pl. xlvii, fig. 3; text-figs. 106, 110, 112, 114-118.
Gregory, W. K. 1920 A, 165.
Middle Eocene (Bridger); Wyoming.

Pantolestes phocipes Matthew.

Matthew, W. D. 1909 D, 532, text-fig. 111.
Middle Eocene (Bridger); Wyoming.

Pantolestes sp. indet.

Matthew, W. D. 1909 C, 96. Middle Eocene (Bridger); Wyoming.

Superfamily TENRECOIDÆ, new name.

Unless otherwise indicated the authors, as quoted, use the name Centetoidea for this superfamily.

Dobson, G. E. 1883 A, 2.
Gill, T. 1872 B, 19.
1875 A, 102, 111.
1883 B, 120.
Gregory, W. K. 1910 A, 267.
1920 A, 165.
Leche, W. 1907 A, 146.
Schlosser, M. 1887 B, 89 (Centetoidea); 91 (Centetinæ).
Weber and Abel 1928 A, 114.

APTERNODONTIDÆ Matthew.

Matthew, W. D. in Osborn, H. F. 1910 B, 519.
Arldt, T. 1912 A, 704.
Matthew, W. D. 1910 A, 35 (Apternodontinæ).

APTERNODUS Matthew. Type *A. mediævus* Matthew.

Matthew, W. D. 1903 B, 202.
Broom, R. 1909 C, 133.
Gregory, W. K. 1910 A, 258.
1912 C, 193.
1916 A, 244, pl. i, F.
Gregory, W. K. 1922 A, 105, 107, 156, pl. v.
Haug, E. 1911 A, 1528.
Joleaud, L. 1919 A, 704.
Leche, W. 1907 A, 54.
Matthew, W. D. 1906 A, 787.

Matthew, W. D. 1909 C, 110.
1909 D, 543.
1909 E, 196.
1910 A, 33.
1913 A, 308, 311.
1928 A, 70.
Matthew and Granger 1924 B, 3.
Osborn, H. F. 1907 G, 121, fig. 70.
1910 B, 216, 519.
Palmer, T. S. 1904 A, 113, 871.
Scharff, R. F. 1911 A, 246.
Schlosser, M. 1911 A, 166.
Simpson, G. G. 1927 H, 283, 295.
Winge, H. 1917 A, 161.
Zdansky, O. 1926 A, 231.
Zittel and Schlosser 1911 A, 366.
1923 A, 445.

Apternodus mediævus Matthew.

Matthew, W. D. 1903 B, 202, fig. 2.
Granger, W. 1910 A, 241.
Gregory, W. K. 1910 A, 259.
Matthew, W. D. 1909 C, 103.
1909 D, 543, pl. li, fig. 2.
1910 A, 33, pl. vi.
Zdansky, O. 1926 A, 231, fig. 1.
Lower Oligocene (Titanotherium beds); Montana.

SOLENODONTIDÆ Dobson.

Dobson, G. E. 1883 A (1882), 87.
Allen, J. A. 1908 B, 505, pls. xxviii-xxxiii; text-figs. 1-9 (Solenodon).
Beddard, F. E. 1902 A, 513.
Brandt, J. F. 1833 B, 459, pls. i, ii (Solenodon).
Gregory, W. K. 1910 A, 240.
Leche, W. 1907 A, 5.
Palmer, T. S. 1904 A, 872.
Peters, W. 1864 B, 1, pls. i-iii (Solenodon).
Schlosser, M. 1887 B, 113.

MICROPTERNODUS Matthew. Type *M. borealis* Matthew.

Matthew, W. D. 1903 B, 204.
Broom, R. 1909 C, 133.
Gregory, W. K. 1910 A, 259.
Haug, E. 1911 A, 1528.
Joleaud, L. 1919 A, 704.
Leche, W. 1907 A, 54.
Matthew, W. D. 1909 C, 110.
1909 D, 543.
1913 A, 308.
1919 B, 174.
Osborn, H. F. 1907 G, 121, fig. 71.
Schlosser, M. 1911 A, 166.
Zdansky, O. 1926 A, 236.
Zittel and Schlosser 1911 A, 366.
1923 A, 445.

Micropternodus borealis Matthew.

Matthew, W. D. 1903 B, 204, fig. 3.
1905 D, 49, fig. 23.
1909 C, 103.
1909 D, 543, pl. li, fig. 1.
Zittel and Schlosser 1911 A, 366, fig. 525.
Lower Oligocene (Titanotherium beds); Montana.

TENRECIDÆ Gray.

Gray, J. E. 1821 A.
Unless otherwise indicated the writers, as quoted, employ the name Centetidæ.
Abel, O. 1913 B, 711 ("centetiden").
Adloff, P. 1910 B, 253.
1916 A, 593.
Arldt, T. 1907 C, 676.
1907 D, 644.
Bardeleben, K. 1885 C, 150 (Centetes).
1889 B, 261 (Centetes).
Beddard, F. E. 1902 A, 511.
Broom, R. 1915 A, 351 (Centetes).
Carlsson, A. 1922 A, 236.
Carus, V. 1875 A, 89 (Centetina).
Cockerell, Miller, and Prinz 1914 A, 350.
Cuvier, F. 1808 A, 46, pl. iii ("tenrecs").
Dobson, G. E. 1883 A, 2, 67, 72.
Doran, A. H. G. 1878 A, 444.
Flower, W. H. 1883 D, 464.
Ghigi, A. 1900 B, 105 ("centetidi").
Gill, T. 1875 A, 111.
1883 B, 120.
1885 B, 20.
1886 B, 137.
Gregory, W. K. 1910 A, 236.
1920 A, 165.
Hertz, M. 1925 A, 579, fig. 39 (Centetes).
Hilzheimer, M. 1913 A, 565.
Jacobi, A. 1921 A, 203 (Centetes).
Kampfen, P. N. 1905 A (Centetes).
Köstlin, O. 1844 A (Centetes).
Kükenthal, W. 1913 A, 678.
Leche, W. 1887 A.
1900 A, 1011.
1904 A, 219.
1907 A.
1921 A, 6.
Leunis and Ludwig 1883 A, 207 (Cetetina).
Lobley, J. L. 1908 A, 194, 204.
Lubosch, W. 1911 A, 330.
Lydekker, R. 1914 A, 629.
Major, C. J. F. 1897 A, 525.
1899 A, 508.
Mathew, W. D. 1910 A, 35.
1913 A, 309, 313.
Matthew and Granger 1917 A, 323.
Mivart, St. G. 1868 A, 147.
Oehngren, S. 1919 A, 165.
Osborn, H. F. 1909 D, 52.
Palacký, J. 1903 C, 343 ("centetiden").
Pander and Alton 1831 A, 23, pl. ii (Centetes).
Palmer, T. S. 1904 A, 874 (Tenrecidæ).
Parker, W. K. 1886 A, 218, pl. xvi, figs. 13, 14; pls. xxxii-xxxvi.
Paulli, S. 1900 B, 486 (Centetes).
Rehs, J. 1914 A, 103.
Scharff, R. F. 1911 A, 246, 282.
1922 A, 66 (Centetes).
Schlosser, M. 1887 B, 89, 91, 109.
1901 F, 300.

Taschenberg, O. 1899 A, 4521 (Centetes).
Terra, P. 1911 A, 265 ("centetiden").
Tims, H. W. M. 1902 A, 335.
1905 B, 1786 (Centetes).
Trouessart, E. L. 1904 A, 153.
Van Bemmelen, J. F. 1914 A, 524.
Van den Broeck, A. J. P. 1912 A, 784.
Wagner, R. 1843 A (Centetes).
Wallace, A. R. 1876 A, I, 118; II, 188.
Weber and Abel 1928 A, 94, 97, 115, 117, 127.
Weber and Burlet 1927 A, 242, 260.
Winge, H. 1917 A, 93, 148, 189 (Centetini).
1923 A, 124, 170, 180, 184, 207, 214 (Centetidæ, Centetini, Solenodontini).
Woodward, M. F. 1896 A, 558, 589.
Wortman, J. L. 1920 A, 12.
Zittel and Schlosser 1911 A, 366.
1923 A, 444, 669.

PALÆORYCTES Matthew. Type *P. puercensis* Matthew.

Matthew, W. D. 1913 A, 309.
Gregory, W. K. 1916 A, 248.
1920 A, 240.
1922 A, 101, 102, 104, 513.
Gregory and Simpson 1920 A, 1.
Matthew, W. D. 1921 D, 212.
Simpson, G. G. 1928 J, 3, 4, 8 (Palæoryctes, Palæolestes).
Weber and Abel 1928 A, 90, 127.
Winge, H. 1917 A, 161.
Zittel and Schlosser 1923 A, 445.

Palæoryctes puercensis Matthew.

Matthew, W. D. 1913 A, 309, pls. lx, lxi; text-figs. 2, 3.
Abel, O. 1914 A, 54, fig. 27.
Gregory, W. K. 1920 A, 163.
1922 A, 102, fig. 43.
Lydekker, R. 1914 A, 629.
Matthew, W. D. 1914 B, 384.
Matthew and Granger 1921 A, 3 (Palæolestes).
Reeside, J. B. 1924 A, 41.
Simpson, G. G. 1928 J, 5, fig. 1.
Paleocene (Torrejon); New Mexico.

CENTRACODON Marsh. Type *C. delicatus* Marsh.

Hay, O. P. 1902 A, 740.
Matthew, W. D. 1909 C, 101.
1928 B, 975.
Palmer, T. S. 1904 A, 167, 871.
Troxell, E. L. 1923 F, 507.
Zittel and Schlosser 1911 A, 368 (Syn. of Entomacodon).
1923 A, 446 (Syn. of Entomacodon).

Centracodon delicatus Marsh.

Hay, O. P. 1902 A, 740.
Matthew, W. D. 1909 C, 96.
Middle Eocene (Bridger); Wyoming.

Superfamily CHRYSOCHLOROIDÆ, new form.

Unless otherwise indicated the authors, as quoted, use the form Chrysochloroidea.

Broom, R. 1915 A, 353.
1916 A, 458 (Chrysochloridea).
Dobson, G. E. 1883 A (1882), 2 (Chrysochloridea).
Gill, T. 1872 B, 19 (Chryschloridoidea).
1875 A, 102, 109, 112.
1883 B, 120.
1885 J, 120.
Gregory, W. K. 1910 A, 267.
Schlosser, M. 1887 B, 89 (Chrysochloridæ).

CHRYSOCHLORIDÆ Mivart.

Mivart, St. G. 1868 A, 150.
Abel, O. 1909 D, (221) (Chrysochloris).
1912 F, 364, 381, 666 (Chrysochloris).
1913 B, 714 ("chrysochloriden").
Adloff, P. 1910 B, 253.
1916 A, 594.
Ameghino, F. 1902 B, 11.
1906 A, 391.
Anderson, C. 1925 A, 18 (Chrysochloris).
Anthony, R. 1913 A, 261 (Chrysochloris).
Arldt, T. 1907 C, 676.
1907 D, 646.
1912 A, 704.
Bardenfleth, K. S. 1913 A, 75 (Chrysochloris).
Beddard, F. E. 1902 A, 514.
Bensley, B. A. 1902 A, 7, pl., fig. 7.
Broom, R. 1899 A, 762 (Chrysochloris).
1907 B, 283 ("golden moles").
1908 F, 14.
1909 C, 129 (Chrysochloris).
1910 B, 765 (Chrysochloris).
1915 A, 351 (Chrysochloris).
1916 A, 449, pls. i, ii; text-figs. 1-3 (Chrysochloris).
1917 A, 978 (Chrysochloris).
Carlsson, A. 1922 A, 236.
Cope, E. D. 1883 I, 80.
Cuvier, F. 1808 A, 49, pl. iii ("chrysoclore").
1825 A, 65, pl. xviii ("chrysochlores").
Diener, C. 1909 A, 55 (Chrysochloris).
Dobson, G. E. 1883 A, 2, 108.
Doran, A. H. G. 1878 A, 436.
Flower, W. H. 1883 D, 465.
Gervais, P. 1853 B, 44 ("chrysochlores").
Gidley, J. W. 1906 F, 93, pl. iv, fig. 6 (Chrysochloris).
Giebel, C. G. 1855 A, 16 (Chrysochloris).
1883 A, pls. lxii, xc (Chrysochloris).
Gill, T. 1875 A, 109, 112.
1883 B, 120.
1885 B, 20.
1886 B, 136.
Gottlieb, H. 1914 A, 209 (Chrysochloris).
Gregory, W. K. 1910 A, 255.

Gregory, W. K. 1912 C, 193 ("chrysochlorids").
1914 E, 525 (Chrysochloris).
1916 A, 244, pl. i (Chrysochloris).
1922 A, 107 (Chrysochloris).
Günther, A. 1876 A, 346.
Heilprin, A. 1887 A, 346.
Hertz, M. 1925 A, 545, 579, fig. 38 (Chrysochloris).
Hilzheimer, M. 1913 A, 564.
Kampfen, P. N. 1905 A, 442.
Köstlin, O. 1844 A (Chrysochloris).
Kükenthal, W. 1913 A, 678.
Leche, W. 1887 A (Chrysochloris).
1904 A, 220, figs. 1-3 (Chrysochloris).
1905 A, 577.
1907 A, 35, 57.
1912 A, 65, figs. 1, m (Chrysochloris).
Lobley, J. L. 1908 A, 204.
Major, C. J. F. 1897 A, 534.
1899 A, 498.
Matthew, W. D. 1906 A, 786.
1909 C, 103, 110, 112, 118.
1913 A, 313.
1915 K, fig. 17 ("golden moles").
1928 A, 71.
Meckel, J. F. 1825 A (Chrysochloris).
Osborn, H. F. 1907 G, 64, 81, 119-126, 227, figs. 42, 43, 69 (Chrysochloris).
1909 D, 75.
1910 B, 213, 520.
Owen, R. 1845 B, 412, pl. cx ("chrisochlore").
1868 A, 873, fig. 240 (Chrysochloris).
Palacký, J. 1903 C, 343 ("chrysochloriden").
Palmer, T. S. 1904 A, 188, 869.
Pander and Alton 1831 A, 17, pl. v (Chrysochloris).
Parsons, F. G. 1901 A, 26 (Chrysochloris).
Reynolds, S. H. 1897 A, 418, 440, 488 (Chrysochloris).
Scharff, R. F. 1911 A, 245.
Schlosser, M. 1887 B, 89, 137.
1911 A, 166 ("chrysochloriden").
Scott, W. B. 1905 B, 492 (Chrysochloris).
1928 B, 258.
Simpson, G. G. 1927 H, 284 (Chrysochloris).
Sinclair, W. J. 1905 D, 492.
Tims, H. W. M. 1903 A, 137 (Chrysochloris).
Trouessart, E. L. 1904 A, 154.
Van den Broeck, A. J. P. 1912 A, 784.
Wallace, A. R. 1876 A, II, 189.
Weber and Abel 1928 A, 94, 97, 118, 128.
Weber and Burlet 1927 A, fig. 45 (Chrysochloris).
Winge, H. 1917 A, 93, 160 (Chrysochloridini).
1923 A, 124, 180, 184 (Chrysochloridini).
Woodward, M. F. 1896 A, 558, 589 (Chrysochloris).
Wortman, J. L. 1921 A, 180 (Chrysochloris).
Zdansky, O. 1926 A, 232, fig. 2 (Chrysochloris).
Zittel and Schlosser 1911 A, 366.
1923 A, 444, 670.

ARCTORYCTES Matthew. Type *A. terrenus* Matthew.

Matthew, W. D. 1907 A, 172.
1909 C, 118.
1913 A, 308.
1928 A, 71.
Osborn, H. F. 1909 D, 75.
1910 B, 287, 520.
1912 G, 249.
Scharff, R. F. 1911 A, 246, 404.
Simpson, G. G. 1927 H, 295.
Winge, H. 1917 A, 193.

Arctoryctes terrenus Matthew.

Matthew, W. D. 1907 A, 172.
1906 A, 787 ("chrysochlorid").
1909 C, 112.
1928 A, 71.
Gregory, W. K. 1910 A, 258.
O'Harra, C. C. 1910 A, 85.
Miocene; South Dakota.

Superfamily ERINACEOIDÆ, new form.

Unless otherwise indicated the authors, as quoted, use the form Erinaceoidea.

Dobson, G. E. 1883 A, 2.
Gill, T. 1872 B, 18.
1875 A, 109.
1883 J, 119.
Gregory, W. K. 1910 A, 266 (Erinaceoidea); 464 (Erinaceomorpha).
Leche, W. 1907 A, 146.
Osborn, H. F. 1910 B, 520 (Erinaceoidea, Erinaceomorpha).
Schlosser, M. 1887 B, 89 (Erinaceoidea); 91 (Erinaceinæ).
Weber and Abel 1928 A, 115, 118, 119.

LEPTICTIDÆ.

Hay, O. P. 1902 A, 738.
Abel, O. 1913 B, 710.
1914 A, 50.
1922 C, 289 ("leptictiden").
Ameghino, F. 1902 B, 11 (Ictopsidæ).
Arldt, T. 1907 D, 660 (Ictopsidæ).
1912 A, 704 (Ictopsidæ).
Cope, E. D. 1880 U, 151, 152, 156.
Douglass, E. 1905 A, 209.
Gregory, W. K. 1910 A, 260.
Hilzheimer, M. 1913 A, 565.
Leche, W. 1907 A, 47, 49, 54, 145.
Lydekker, R. 1910 F, 657.
Matthew, W. D. 1901 B, 370, 375.
1903 C, 227.
1905 D, 47.
1909 C, 93, 96, 101, 103, 105, 110
1909 D, 299, 507, 534.
1910 A, 36.
1914 B, 387.
1918 H, 567, 571, 606.
1921 D, 214.
1928 B, 965.
Matthew and Granger 1924 A, 1.

Matthew and Granger 1925 A, 7, 12.
1925 B, 3.
Osborn, H. F. 1909 D, 128.
1910 B, 125, 213, 520.
Moodie, R. L. 1922 C, 348.
Palacký, J. 1903 C, 343 ("ictophiden"); 344 ("lepticiden").
Simpson, G. G. 1927 F, 122, 128.
Simpson, G. G. 1928 J, 3.
Weber, M. 1904 A, 381.
Weber and Abel 1928 A, 125, 127.
Winge, H. 1917 A, 91, 97, 178 (Leptictididæ).
1923 A, 123, 128, 194, 212 (Leptictididæ).
Woodward, A. S. 1898 B, 403.
Zittel and Schlosser 1911 A, 366.
1923 A, 445, 667, 670.

LEPTICTINÆ Matthew.

Matthew, W. D. 1918 H, 571.

Ictops Leidy. Type *I. dakotensis* Leidy.

Hay, O. P. 1902 A, 658 (Nanohyus); 739 (Ictops).
Douglass, E. 1905 A, 210, 211, 212.
1909 C, 283, 285.
Edinger, T. 1928 A, 383.
Gregory, W. K. 1910 A, 238, 260.
Haug, E. 1911 A, 1528.
Hertz, M. 1925 A, 579.
Hilzheimer, M. 1913 A, 564.
Lambe, L. M. 1905 D, 369A.
Leche, W. 1902 A, 41.
1907 A, 47, 54.
1912 A, 82.
Lobley, J. L. 1908 A, 211.
Matthew, W. D. 1901 B, 369.
1903 C, 229.
1909 C, 110.
1909 D, 535.
1913 A, 311.
1915 K, 420.
1918 H, 571, 606.
1928 B, 975.
Osborn, H. F. 1907 G, 118, figs. 66, 67.
Palacký, J. 1903 B, 312 (Nanohyus).
1903 C, 343.
Palmer, T. S. 1904 A, 348, 871 (Ictops); 447, 929 (Nanohyus).
Schlosser, M. 1905 A, 327.
1911 A, 166.
Seeley, H. G. 1886 A, 418.
Wallace, A. R. 1876 A, I, 133 (Ictops); 137 (Nanohyus).
Weber, M. 1904 A, 381 (Ictidops).
Weber and Abel 1928 A, 126.
Winge, H. 1917 A, 91, 98.
1923 A, 128, 212, 215, 216 (Ictidops).
Zittel and Schlosser 1911 A, 367.
1923 A, 445.

Ictops acutidens Douglass.

Douglass, E. 1901 B, 242, 245, 279.
1903 A, 149.
1905 A, 213, 222, pl. xxii, figs. 7, 21, 22, 31-34.
Gregory, W. K. 1910 A, 260.
Leche, W. 1907 A, 47.
Matthew, W. D. 1903 B, 205, fig. 4.
1905 D, 47, fig. 22.
1909 C, 103.
Moodie, R. L. 1922 C, 348.
Trouessart, E. L. 1904 A, 155.
Winge, H. 1923 A, 216 (Ictidops).
Oligocene (White River); Montana.

Ictops bullatus Matthew.

Hay, O. P. 1902 A, 739.
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1910 A, 85, 126.
1920 A, 151.
Trouessart, E. L. 1904 A, 155.
Middle Oligocene (Brule); Nebraska.

Ictops dakotensis Leidy.

Hay, O. P. 1902 A, 739.
Cook, H. J. 1912 D, 36.
Douglass, E. 1905 A, 212.
Gregory, W. K. 1920 A, 240.
Leche, W. 1915 A, 357, fig. 124.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1910 A, 85, 126.
Sinclair, W. J. 1924 A, 101, 119.
Trouessart, E. L. 1904 A, 155.
Middle Oligocene (Brule); Dakota, Nebraska.

Ictops intermedius Douglass.

Douglass, E. 1905 A, 217, 222, pl. xxii, figs. 6, 10-12.
Matthew, W. D. 1909 C, 103.
Lower Oligocene (Titanotherium beds); Montana.

Ictops major Douglass.

Douglass, E. 1905 A, 220, 222, pl. xxii, figs. 8, 9, 19, 24-30.
Gregory, W. K. 1910 A, 260.
Matthew, W. D. 1909 C, 103.
Lower Oligocene (Titanotherium beds); Montana.

Ictops montanus Douglass.

Douglass, E. 1905 A, 214, 222, pl. xxii, figs. 1-4.
Matthew, W. D. 1909 C, 103.
Lower Oligocene (Titanotherium beds); Montana.

Ictops porcinus (Leidy).

Hay, O. P. 1902 A, 658 (Nanohyus).
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1909 C, 105.
Trouessart, E. L. 1905 A, 657 (Nanohyus).
Middle Oligocene (Brule); Nebraska.

Ictops tenuis Douglass.

Douglass, E. 1905 A, 218, 222, pl. xxii, figs. 5, 17, 18, 20, 23.

Matthew, W. D. 1909 C, 103.
Lower Oligocene (Titanotherium beds); Montana.

Ictops thomsoni Matthew.

Matthew, W. D. 1903 B, 207, fig. 5.
Douglass, E. 1905 A, 214 (I. thompsoni).
Gregory, W. K. 1910 A, 238, 260, fig. 17.
Leche, W. 1915 A, 357.
Matthew, W. D. 1909 C, 103.
Lower Oligocene (Titanotherium beds); Montana.

MESODECTES Cope. Type *M. caniculus* Cope.

Hay, O. P. 1902 A, 739.
Edinger, T. 1928 A, 384.
Haug, E. 1911 A, 1528.
Lambe, L. M. 1905 D, 369 A.
Leche, W. 1902 A, 41.
1912 A, 82.
Matthew, W. D. 1903 C, 229.
1909 C, 110.
1909 D, 535.
1918 H, 571.
1928 B, 975.
Palmer, T. S. 1904 A, 414, 871.
Seeley, H. G. 1886 A, 514.
Wallace, A. R. 1876 A, I, 133 (Isacis).

Mesodectes caniculus Cope.

Hay, O. P. 1902 A, 739.
Matthew, W. D. 1901 B, 357.
1909 C, 105.
Trouessart, E. L. 1904 A, 156.
Middle Oligocene; Colorado.

LEPTICTIS Leidy. Type *L. haydeni* Leidy.

Hay, O. P. 1902 A, 739.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 348.
Hilzheimer, M. 1913 A, 566.
Leche, W. 1902 A, 41.
1912 A, 82.
Lobley, J. L. 1908 A, 211.
Matthew, W. D. 1903 C, 229.
1909 C, 110.
1909 D, 535.
1918 H, 571.
1928 B, 975.
Osborn, H. F. 1910 B, 520.
Schlosser, M. 1905 A, 327.
Simpson, G. G. 1928 J, 3.
Weber, M. 1904 A, 381.
Weber and Abel 1928 A, 126.
Winge, H. 1917 A, 91, 98.
1923 A, 129, 212, 215, 216.
Zittel and Schlosser 1911 A, 367.
1923 A, 445.

Leptictis haydeni Leidy.

Hay, O. P. 1902 A, 739.
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1910 A, 85, 126.
Zittel and Schlosser 1923 A, 445, fig. 563.
Middle Oligocene (Brule); Nebraska, South Dakota.

DIACODON Cope. Type *D. alticuspis* Cope.

Hay, O. P. 1902 A, 739 (Palæictops); 740 (Diacodon).
Granger, W. 1910 A, 250 (Palæictops).
Haug, E. 1911 A, 1528 (Palæictops, Diacodon).
Leche, W. 1912 A, 82 (Palæictops).
Matthew, W. D. 1903 C, 229 (Palæictops).
1909 C, 101 (Palæictops, Diacodon).
1909 D, 535 (Palæictops).
1915 K, 420.
1918 H, 571, 581 (Diacodon; subgenus Palæolestes).
1928 B, 975.
Osborn, H. F. 1909 D, 38, 45, 46 (Palæictops).
1910 B, 125.
1912 G, 236, fig. 3 (Palæictops).
Palacký, J. 1903 C, 342.
Palmer, T. S. 1904 A, 224, 871 (Diacodon); 498, 871 (Palæictops).
Simpson, G. G. 1928 J, 5, fig. 1.
Winge, H. 1917 A, 98 (Palæictops).
Zittel and Schlosser 1911 A, 367 (Palæictops).
1923 A, 445, 666 (Palæictops).
Trouessart, E. L. 1904 A, 156 (Palæictops).

Diacodon alticuspis Cope.

Hay, O. P. 1902 A, 740.
Matthew, W. D. 1909 C, 93.
1918 H, 572, figs. 1, 2.
Merrill, G. P. 1907 A, 32.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico: (Wind River); Wyoming.

Diacodon bicuspis (Cope).

Hay, O. P. 1902 A, 739 (Palæictops).
Chardin, T. 1922 A, 91.
Matthew, W. D. 1909 C, 93 (Palæictops).
1913 A, 311, fig. 4 (Palæictops).
1918 H, 572, 574, figs. 3-5 (Diacodon).
1928 B, 961, fig. 8.
Trouessart, E. L. 1904 A, 156 (Palæictops).
Lower Eocene (Wasatch?, Wind River); Wyoming: (Wasatch) New Mexico.

Diacodon puercensis Matthew.

Matthew, W. D. 1918 H, 576, figs. 6-9 [D. (Palæolestes)].
Paleocene (Torrejon); New Mexico.

PARICTOPS Granger. Type *P. multicuspis* Granger.

Granger, W. 1910 A, 250.
Matthew, W. D. 1918 H, 571, 579.
Osborn, H. F. 1912 G, 236, fig. 3.

Parictops multicuspis Granger.

Granger, W. 1910 A, 250, fig. 6.
Matthew, W. D. 1918 H, 579.
Eocene (Wind River); Wyoming.

LEPTACODON Matthew and Granger. Type *L. tener* Matthew and Granger.

Matthew and Granger 1921 A, 2.

Leptacodon tener Matthew and Granger.

Matthew and Granger 1921 A, 2.
Reeside, J. B. 1924 A, 47.
Paleocene (Tiffany); Colorado.

XENACODON Matthew and Granger. Type *X. mutilatus* Matthew and Granger.

Matthew and Granger 1921 A, 3.

Xenacodon mutilatus Matthew and Granger.

Matthew and Granger 1921 A, 3.
Reeside, J. B. 1924 A, 47.
Paleocene (Tiffany); Colorado.

ACMEODON Matthew and Granger. Type *A. secans* Matthew and Granger.

Matthew and Granger 1921 A, 3.
Simpson, G. G. 1928 J, 3.
Winge, H. 1923 A, 195 (Acmodon).

Acmeodon secans Matthew and Granger.

Matthew and Granger 1921 A, 3.
Paleocene (Torrejon); New Mexico.

GYPSONICTOPS Simpson. Type *G. hypoconus* Simpson.

Simpson, G. G. 1927 A, 6.
1927 F, 128.

Gypsonictops hypoconus Simpson.

Simpson, G. G. 1927 A, 6, fig. 6.
1927 F, 122.
Upper Cretaceous (Hell Creek); Montana.

DIDELPHODONTINÆ Matthew.

Matthew, W. D. 1918 H, 571.

DIDELPHODUS Cope. Type *Deltatherium absarokæ* Cope.

Hay, O. P. 1902 A, 753.
Bardenfleth, K. S. 1913 A, 76.
Gregory, W. K. 1922 A, 534, pl. v.
1926 B, 408, 415, fig. 1.
Gregory and Simpson 1920 A, 1, 6.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1901 A, 6, 19, 20.
1909 C, 101.
1909 D, 465.
1913 A, 311.
1918 H, 571, 579.
Osborn, H. F. 1909 D, 49.
1910 B, 125, 133.
Palmer, T. S. 1904 A, 230, 811.
Seeley, H. G. 1886 A, 418.
Simpson, G. G. 1928 J, 7.
Wortman, J. L. 1901 B, XII, 285.
1902 A, XIII, 433.

Didelphodus absarokæ Cope.

Hay, O. P. 1902 A, 753.
Gregory, W. K. 1916 A, 244, pl. i, H.
1922 A, 108, figs. 45, 47.
Matthew, W. D. 1909 C, 93.
1913 A, 311, fig. 5.
1918 H, 582, figs. 11-13.
Simpson, G. G. 1928 J, 5, fig. 1.
Lower Eocene (Wasatch); Wyoming.

Didelphodus absarokæ secundus Matthew.

Matthew, W. D. 1918 H, 584, fig. 14.
Lower Eocene (Wasatch); Wyoming.

Didelphodus absarokæ ventanus Matthew.

Matthew, W. D. 1918 H, 585, fig. 15.
Lower Eocene (Wind River); Wyoming.

MYRMECOBOIDES Gidley. Type *M. montanensis* Gidley.

Gidley, J. W. 1915 A, 395.
Longman, H. A. 1924 A, 6.
Matthew, W. D. 1916 I, 110.
1928 B, 957.
Winge, H. 1923 A, 100 (Myrmecobioides).
Zittel and Schlosser 1923 A, 438.

Myrmecoboides montanensis Gidley.

Gidley, J. W. 1915 A, 395, pl. xxiii.
Paleocene (Fort Union); Montana.

PHENACOPS Matthew. Type *P. incerta* Matthew.

Matthew, W. D. 1909 D, 303, 535.
    1918 H, 571.
Winge, H. 1923 A, 194.

Phenacops incerta Matthew.

Matthew, W. D. 1909 D, 535, pl. xlix, fig. 1.
    Middle Eocene (Bridger); Wyoming.

ERINACEIDÆ Bonaparte.

Bonaparte, C. L. 1838 A, 113.
Abel, O. 1914 A, 50.
Adloff, P. 1910 B, 250.
Ameghino, F. 1902 B, 11.
    1905 C, 452, fig. 57 (Erinaceus).
    1906 C, 45 ("érinacéidés").
Anthony, R. 1912 A.
Arldt, T. 1912 A, 704.
Aymard, A. 1850 A, 107 ("hérisson").
Baur, G. 1894 B, 350 (Erinaceus).
Bertelli, D. 1909 A, 180 (Erinaceus).
Beyer, H. 1908 A, 84, fig. 20 (Erinaceus).
Bolk, L. 1921 C, 228 (Erinaceus).
Brandt and Woldrich 1887 A, 18 (Erinacei).
Bronn, H. G. 1849 A, 724 (Erinaceus).
Broom, R. 1909 C, 133 (Erinaceus).
Burlet, H. M. 1913 B, 394 (Erinaceus).
Carlsson, A. 1922 A, 227.
Carus, V. 1875 A, 88 (Erinacei).
Cuvier, F. 1808 A, 44 ("hérissons").
    1825 A, 66, pl. xvi ("hérissons").
Cuvier, G. 1805 A ("hérissons").
Denker, A. 1901 A, 643 (Erinaceus).
Dependorf, T. 1898 A, 384 (Erinaceus).
Depéret, C. 1908 A, 306.
Dietrich, K. 1841 A, 74 (Erinaceus).
Dobson, G. E. 1883 A, 2, 6.
Doran, A. H. G. 1878 A, 438, 444 ("hedgehogs").
Earl, C. 1897 A, 571 (Erinaceus).
Eggeling, H. 1904 A, 95 (Erinaceus).
Fawcett, E. 1918 A, 211, pls. i-ix, xi, xvi-xviii; text-figs. 1-15 (Erinaceus).
Flower, W. H. 1883 D, 402.
Flower and Lydekker 1891 A, 618.
Frey, H. 1911 A, 396 (Erinaceus).
Fuchs, H. 1906 A, 27 (Erinaceus).
    1912 C, 519.
    1912 D, 141 (Erinaceus).
Gegenbaur, C. 1865 C, 554, fig. 7 (Erinaceus).
Gervais, P. 1852 A, 11 ("Erinaceus").
    1859 A, 52 ("érinacéides").
Giebel, C. G. 1883 A, pl. x (Erinaceus).
Gill, T. 1875 A, 102, 108.
    1883 B, 119.
    1886 B, 143.
Gray, J. E. 1821 A, 300 (Erinacidæ).
Gregory, W. K. 1910 A, 260.
    1913 E, 8, fig. 5 (Erinaceus).
    1920 A, 163, 208.
    1921 A, 173, fig. 65 (Erinaceus).
Hasse and Schwarck 1870 A, 93, fig. 26 (Erinaceus).
Hilzheimer, M. 1913 A, 564.
Hoernes, R. 1886 A, 701.
Hogben, L. T. 1919 A, 76.
Hommes, J. H. 1924 A, 23, figs. 20, 38 (Erinaceus).
Hubrecht, A. A. W. 1897 A, 5, 20, 22 (Erinaceus).
Kampfen, P. N. 1905 A (Erinaceus).
Kingsley, J. S. 1925 A, 190, fig. 201 (Erinaceus).
Köstlin, O. 1844 A, (Erinaceus).
Lataste, F. 1887 A, 271 ("hérissons").
Leboucq, H. 1884 A, 73 (Erinaceus).
Leche, W. 1887 A.
    1895 A, 11 (Erinaceus).
    1900 A, 992, pls. cx, cxi; text-figs. 84, 85, 88, 89, 92, 94, 95-97.
    1902 A.
    1903 A, 511.
    1905 A, 578.
    1907 A, 48, 120, 146.
    1921 A, 4.
Leunis and Ludwig 1883 A, 207 (Erinacei).
Lobley, J. L. 1908 A, 200, 204.
Lubosch, W. 1911 A, 330.
Major, C. J. F. 1899 A, 502 (Erinaceus).
Matthew, W. D. 1903 C, 227.
    1905 D, 48.
    1909 C, 105, 110.
    1915 A, 225 ("hedgehogs").
    1915 K, fig. 17 ("hedgehogs").
    1928 B, 975.
Meckel, J. F. 1825 A (Erinaceus).
Michelsson, G. 1922 A, figs. 1-4 (Erinaceus).
Miller, G. S. 1912 A, 114.
Mivart, St. G. 1868 A, 146.
Mysberg, W. A. 1917 A, 649, fig. 3 (Erinaceus).
Oken, L. 1823 A, 306 (Erinaceus).
Osborn, H. F. 1905 I, 103.
    1909 D, 52.
    1910 B; 149, 221, 520.
Owen, R. 1845 B, 419.
    1866 B, 296, 300.
Palacký, J. 1903 C, 343, 345 ("erinaceiden").
Pander and Alton 1831 A, 17, pl. iii (Erinaceus).
Parker, W. K. 1886 A, pl. xvi, figs. 8, 9; pls. xvii-xxii (Erinaceus).
Paulli, S. 1900 B, 484, figs. 1-3 (Erinaceous).
Pictet, F. J. 1853 A, 170, pl. 1, figs. 4-6 ("hérissons").
Rehs, J. 1914 A, 103.
Retzius, A. 1849 A, 615, figs. 3, 4 (Erinaceus).
Roger, O. 1896 A, 27.
Scharff, R. F. 1895 A, 471.
Schlosser, M. 1887 B, 89, 91, 93.
    1897 B, 17 (Erinaceus).
    1898 D, 123 (Erinaceus).
    1899 J, 353, 355 (Erinaceus).
    1901 F, 299 ("erinaceiden").
Stehlin, H. G. 1916 B, 1537 ("erinaceiden").
Stromer, E. 1902 B, 554 (Erinaceus).
Taschenberg, O. 1899 A, 4566 (Erinaceus).
Terra, P. 1911 A, 266.
Thomas, O. 1918 A, 193 ("hedgehogs").
Trouessart, E. L. 1904 A, 126.
Van Bemmelen, J. F. 1901 A, 755 (Erinaceus).

Van den Broeck, A. J. P. 1912 A, 784 (Erinacæidæ).
Veith, A. 1912 A, 16 (Erinaceus).
Vicq-d'Azyr, F. 1792 A, 597 ("épineux").
Wallace, A. R. 1876 A, II, 187.
1894 A, 435.
Weber, M. 1904 A, 377, 379.
Weber and Abel 1928 A, 115, 119, 125.
Weber and Burlet 1927 A, fig. 196 (Erinaceus).
Winge, H. 1917 A, 93, 141, 189.
1923 A, 124, 165, 170, 184, 205, 214 (Erinaceidæ, Erinaçeini).
Woodward, M. F. 1896 A, 558 (Erinaceus).
Wortman, J. L. 1921 A, 180 (Erinaceus).
Zittel and Schlosser 1911 A, 369.
1923 A, 447.

ERINACEINÆ Gill.

Gill, T. 1872 B, 18.
Dobson, G. E. 1883 A, 2, 6.
Gill, T. 1875 A, 109.
1886 B, 143.
Fuchs, H. 1912 C, 519.
Leche, W. 1902 A.
Leche, W. 1903 A, 513 (Erinaceini).
1921 A, 4 (Erinaceini).
Matthew, W. D. 1903 C, 227.
Trouessart, E. L. 1904 A, 127.
Zittel and Schlosser 1911 A, 369.
1923 A, 447.

PROTERIX Matthew. Type *P. loomisi* Matthew.

Matthew, W. D. 1903 C, 228, 229.
Gregory, W. K. 1910 A, 260.
1912 C, 194.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1905 D, 48.
1909 C, 110.
1915 A, 226.
Osborn, H. F. 1905 I, 103.
1907 G, 118, fig. 64.
1909 D, 63.
1910 B, 221, 520.
Palmer, T. S. 1904 A, 579, 870.
Winge, H. 1917 H, 146.
1923 A, 168, 182.
Zittel and Schlosser 1911 A, 369.
1923 A, 447.

Proterix loomisi Matthew.

Matthew, W. D. 1903 C, 228, fig. 1.
Cook, H. J. 1912 D, 36.
Gregory, W. K. 1920 A, 163, fig. 105.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1910 A, 85, 126.
Trouessart, E. L. 1904 A, 126.
Middle Oligocene (Brule); Nebraska.

Superfamily SORICOIDÆ, new form.

Dobson, G. E. 1883 A, 2 (Soricoidea).
Gill, T. 1872 B, 18 (Soricoidea).
1875 A, 102, 110 (Soricoidea).
1883 B, 119 (Soricoidea).
Gregory, W. K. 1910 A, 465 (Soricomorpha).
Hilzheimer, M. 1913 A, 565 (Soricoidea).
Leche, W. 1907 A, 146 (Soricoidea).
Matthew and Granger 1924 A, 2, 3 (Soricoidea).
Schlosser, M. 1887 A, 89 (Soricoidea); 91 (Soricinæ).
Weber and Abel 1928 A, 115, 120 (Soricoidea).
Weber and Burlet 1927 A, xiii (Soricoidea).

NYCTITHERIIDÆ Simpson.

Simpson, G. G. 1928 A, 3.

NYCTITHERIUM Marsh. Type *N. velox* Marsh.

Hay, O. P. 1902 A, 738 (Talpavus); 742 (Nyctitherium, Nyctilestes).
Abel, O. 1913 B, 710.
Gill, T. 1886 B, 158 (Talpavus).
Haug, E. 1911 A, 1528 (Nyctitherium, Talpavus, Nyctilestes).
Heilprin, A. 1877 A, 348 (Talpavus).
Matthew, W. D. 1909 C, 101 (Talpavus, Nyctitherium, Nyctilestes).
1909 D, 537.
1917 B, 569 (Nyctitherium, Nyctilestes).
1918 H, 603.
Palacký, J. 1902 D, 2.
Palmer, T. S. 1904 A, 467, 808 (Nyctitherium); 466, 807 (Nyctilestes); 660, 874 (Talpavus).
Revilliod, P. 1917 A, 194.
Trouessart, E. L. 1904 A, 76.
Weber, M. 1904 A, 382 (Talpavus).
Weber and Abel 1928 A, 127.
Zittel and Schlosser 1911 A, 367.
1923 A, 446.

This genus may belong to the Chiroptera.

Nyctitherium celatus (Cope).

Hay, O. P. 1902 A, 740 (Diacodon).
Matthew, W. D. 1909 C, 93 (Diacodon).
1918 H, 572, 604, figs. 33, 34.
Merrill, G. P. 1907 A, 32 (Diacodon).
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico, Wyoming.

Nyctitherium curtidens Matthew.

Matthew, W. D. 1909 D, 539, pl. 1, fig. 5.
Middle Eocene (Bridger); Wyoming.

Nyctitherium nitidum (Marsh).

Hay, O. P. 1902 A, 738 (Talpavus).
Matthew, W. D. 1909 C, 96 (Talpavus).
1909 D, 538, pl. 1, figs. 6, 7.
Palacký, J. 1903 C, 343, 348 (Talpavus).
Middle Eocene (Bridger); Wyoming.

Nyctitherium priscum Marsh.

Hay, O. P. 1902 A, 742.
Matthew, W. D. 1909 C, 96.
1909 D, 539.
Middle Eocene (Bridger); Wyoming.

Nyctitherium serotinum (Marsh).

Hay, O. P. 1902 A, 742 (Nyctilestes).
Matthew, W. D. 1909 C, 96 (Nyctilestes).
Matthew, W. D. 1909 D, 539.
Palacký, J. 1902 D, 2 (Vesperugo).
Middle Eocene (Bridger); Wyoming.

Nyctitherium velox Marsh.

Hay, O. P. 1902 A, 742.
Matthew, W. D. 1909 C, 96.
1909 D, 538, pl. 1, fig. 8.
Middle Eocene (Bridger); Wyoming.

PROTENTOMODON Simpson. Type *P. ursirivalis* Simpson.

Simpson, G. G. 1928 A, 3.

Protentomodon ursirivalis Simpson.

Simpson, G. G. 1928 A, 3, fig. 1.
Upper Cretaceous (Fort Union); Montana.

ENTOMACODON Marsh. Type *E. minutus* Marsh.

Hay, O. P. 1902 A, 741.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 D, 539.
Palmer, T. S. 1904 A, 261, 871.
Revilliod, P. 1917 A, 194.
Troxell, E. L. 1923 F, 507.
Zittel and Schlosser 1911 A, 368.
1923 A, 446.

Entomacodon angustidens Marsh.

Hay, O. P. 1902 A, 741.
Matthew, W. D. 1909 C, 96.
Middle Eocene (Bridger); Wyoming.

Entomacodon minutus Marsh.

Hay, O. P. 1902 A, 741.
Matthew, W. D. 1909 C, 96.
1909 D, 540, pl. 1, fig. 4.
Lower Eocene (Wasatch); Wyoming: Middle Eocene (Bridger); Wyoming.

CENTETODON Marsh. Type *C. pulcher* Marsh.

Hay, O. P. 1902 A, 740.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 348.
Matthew, W. D. 1905 D, 49.
1909 C, 101.
1909 D, 540.
Palmer, T. S. 1904 A, 167, 871.

Centetodon altidens Marsh.

Hay, O. P. 1902 A, 740.
Matthew, W. D. 1909 C, 96.
Middle Eocene (Bridger); Wyoming.

Centetodon pulcher Marsh.

Hay, O. P. 1902 A, 740.
Matthew, W. D. 1909 C, 96.
Middle Eocene (Bridger); Wyoming.

MYOLESTES Matthew. Type *M. dasypelix* Matthew.

Matthew, W. D. 1909 D, 541, pl. 1, fig. 3.
Zittel and Schlosser 1911 A, 368.

Myolestes dasypelix Matthew.

Matthew, W. D. 1909 D, 541, pl. 1, fig. 1.
Middle Eocene (Bridger); Wyoming.

TALPIDÆ Gray.

Gray, J. E. 1825 B, 339.
Hay, O. P. 1902 A, 737.
Abel, O. 1913 B, 710.
1914 A, 50.
1922 C, 289 ("talpiden").
Ameghino, F. 1902 B, 11.
1906 C, 49 ("talpidés).
Arldt, T. 1907 D, 684.
1912 A, 704, 750.
Beddard, F. E. 1902 A, 516.
Branca, W. 1915 A, 50.
Brandt and Woldrich 1887 A, 21 (Talpina).
Carter, J. T. 1922 A, 603 (Talpinæ).
Chandler, A. C. 1914 B, 134.
Cockerell, Miller and Prinz 1914 A, 350.
Cope, E. D. 1889 R, 876 (Scalopidæ).
Coues, E. 1877 C, 632 (Talpidæ); 633 (Talpinæ).
Cuvier, F. 1808 A, 38, pl. iii ("taupes").
Cuvier, F. 1825 A, 61, pl. xxiii ("taupes").
Depéret, C. 1906 B, 1121, 1122 ("talpidés").
Dobson, G. E. 1883 A, 2, 126 (Talpidæ); 2 (Talpinæ).
1891 A, 349.
Doran, A. H. G. 1878 A, 444.
Edwards, A. M. 1884 A, 114 ("taupes").
Elliot, D. G. 1901 A, 386.
Gegenbaur, C. 1864 C, 185 ("maulwurf").
Giebel, C. G. 1883 A ("talpinen").
Gill, T. 1886 B, 152.
Gray, J. E. 1825 B, 339.
Gregory, W. K. 1910 A, 263.
Hilzheimer, M. 1913 A, 564.
Hoernes, R. 1886 A, 701.
Kampfen, P. N. 1905 A.
Leche, W. 1887 A ("talpiden").
1900 A, 1014.
1905 A, 578.

Leche, W. 1907 A, 50, 146.
Leunis and Ludwig 1883 A, 210 (Talpina).
Lobley, J. L. 1908 A, 194, 200, 204.
Lubosch, W. 1911 A, 330.
Matthew, W. D. 1901 B, 370.
1905 D, 49.
1909 C, 95, 105, 107, 110, 114, 118.
1909 D, 299, 508, 536.
1910 A, 36.
1914 B, 387.
1915 A, 226 ("moles").
1915 K, 449, fig. 17 ("moles").
1918 H, 567.
1921 D, 214.
1928 B, 975 ("moles").
Meckel, J. F. 1825 A ("maulwürfe").
Miller, G. S. 1912 A, 2.
1912 B, 7 (Talpidæ, Scalopinæ).
1924 C, 10 (Talpidæ, Scalopinæ).
Mivart, St. G. 1868 A, 133, 150.
Osborn, H. F. 1909 D, 52, 64.
1910 B, 149, 221, 254, 521.
Owen, R. 1845 B, 412.
1868 A, 910.
Palacký, J. 1903 C, 343 ("talpiden").
Palmer, T. S. 1904 A, 772, 873.
Pictet, F. J. 1853 A, 176 ("talpiens").
Rehs, J. 1914 A, 103.
Scharff, R. F. 1910 A, 142.
Schlosser, M. 1901 F, 301.
1924 A, 4.
Schwarz, E. 1924 A, 420 ("moles").
Seton, E. T. 1909 A, 1136.
Slonaker, J. R. 1920 A, 363.
Taschenberg, O. 1899 A, 4690.
Terra, P. 1911 A, 269.
Trouessart, E. L. 1904 A, 146.
Vicq-d'Azyr, F. 1792 A, cii, (Talpii).
1819 A, 25 (Talpii).
Wallace, A. R. 1876 A, II, 190.
1894 A, 435.
Weber, M. 1904 A, 377, 378 (Talpidæ, Talpinæ).
Weber and Abel 1928 A, 97, 115, 121, 127.
Weber and Burlet 1927 A.
Weidenreich, F. 1925 A, 39 ("talpiden").
Winge, H. 1917 A, 92, 115, 128, 184 (Talpidæ); 129 (Talpini).
1923 A, 123, 143, 154, 183, 201 (Talpidæ, Talpini).
Woodward, A. S. 1898 B, 403.
Zittel and Schlosser 1911 A, 367.
1923 A, 445, 667, fig. 564.

PROSCALOPS Matthew. Type *P. miocænus* Matthew.

Matthew, W. D. 1901 B, 370, 375.
Broom, R. 1909 C, 135.
Gregory, W. K. 1910 A, 238, 290.
1912 C, 194.
1922 A, 159, pl. v.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 110.
1909 D, 539.
1924 C, 74.
1928 A, 71.
Osborn, H. F. 1907 G, 119, 121, fig. 73.
Palmer, T. S. 1904 A, 575, 874.
Scharff, R. F. 1911 A, 143.
Schlosser, M. 1911 A, 166.
Zittel and Schlosser 1911 A, 367.
1923 A, 446.

Proscalops miocænus Matthew.

Matthew, W. D. 1901 B, 357, 375, text-figs. 1, 2.
1909 C, 107.
1909 D, 537, pl. xlix, fig. 5.
Zittel and Schlosser 1911 A, 368, fig. 528.
1923 A, 446, fig. 565.
Upper Oligocene (Brule); Colorado.

Proscalops secundus Matthew.

Matthew, W. D. 1901 B, 375, text-figs. 1, 2.
Gregory, W. K. 1916 A, 244, pl. i.
Matthew, W. D. 1909 D, 538, pl. li, figs. 3, 4.
1928 A, 71.
Miocene (Rosebud); South Dakota.

DOMNINA Cope. Type *D. gradata* Cope.

Hay, O. P. 1902 A, 741.
Haug, E. 1911 A, 1528.
Osborn, H. F. 1910 B, 221, 521.
Palmer, T. S. 1904 A, 242, 871.
Palacký, J. 1902 D, 2.
Seeley, H. G. 1886 A, 514.
Zittel and Schlosser 1923 A, 446.

Domnina crassigenis Cope.

Hay, O. P. 1902 A, 741.
Matthew, W. D. 1901 B, 357.
1909 C, 105.
Oligocene (Middle); Colorado.

Domnina gradata Cope.

Hay, O. P. 1902 A, 741.
Matthew, W. D. 1909 C, 105.
Oligocene (Middle); Colorado.

TALPA Linnæus. Type *T. europæa* Linnæus.

Linnæus, C. 1758 A, 52.
Abel, O. 1908 G (43) ("maulwurf").
1912 F, 703.
Adams, L. E. 1903 A, 1.
Altmann, F. 1925 A, 108, 111, fig. 25.
Ameghino, F. 1902 D, 423.
1905 B, 193.
1905 C, 454, fig. 98.
1906 C, 49, fig. 6.
Anderson, R. J. 1909 A, 745.
Anthony, R. 1912 A ("taupe").
1913 A, 261.
Bardeleben, K. 1885 B, 86.
1889 A, 107.
1889 B, 260.
Bardenfleth, K. S. 1913 A, 71.
Baur, G. 1886 O, 174 ("mole").
Beddard, F. E. 1902 A, 517.

Beecker, A. 1903 A, 610 ("maulwurf").
Bensley, B. A. 1902 A, 8.
Bertelli, D. 1909 A, 180.
Beyer, H. 1908 A, 95, fig. 22.
Blendinger, W. 1904 A, 470, figs. 21-23.
Böker, H. 1927 A, 38.
Brandt and Woldrich 1887 A, 21.
Braus, H. 1906 A, 268.
Bronn, H. G. 1848 B, 1215.
1849 B, 723.
Broom, R. 1910 B, 765.
1926 A, 263.
Burne, R. H. 1891 A, 159.
Carlsson, A. 1922 A.
Carus and Engelmann 1861 A, 1810.
Clark and Sonntag 1926 A, 461.
Cunningham, J. T. 1897 A, 506.
Cuvier, F. 1808 A, 38, pl. iii, fig. 4 ("taupe").
Cuvier, G. 1805 A.
Dieterich, K. 1841 A, 75.
Dobson, G. E. 1883 A, 137, 159.
Doran, A. H. G. 1878 A, 436, pl. lxxi.
Edwards, A. M. 1884 A, 1141.
Fawcett, E. 1911 A, 402, fig. 25 ("mole").
1917 A, 311-327, fig. 1.
1918 A, 212, 247, pls. ix, x, xv, xxii.
Fischer, E. 1901 A, 2.
1901 B, 467-546, pls. xxvii-xxxiii.
1903 A, 387 ("maulwurf").
Fischer, J. B. 1829 A, 245.
Frassetto, F. 1915 A.
Frets, G. P. 1912 A, 423, figs. 18-23, 62-64.
Frey, H. 1911 A, 395.
Fuchs, H. 1906 A, 12.
1908 C, 221, fig. 19.
1909 D, 20, 72, fig. 8*b*.
1911 D, 97, figs. 5-12.
1912 D, 141.
1926 B, 2.
Gaupp, E. 1902 A, 192, figs. 9, 10.
1906 A, 33.
1906 B, 821.
1908 B, 511.
1908 C, 672.
1910 C, 336.
Gervais, P. 1852 A, 15.
1859 A, 57.
Gidley, J. W. 1906 F, 93.
Giebel, C. G. 1855 A, 15.
1883 A.
Gill, T. 1886 B, 152, fig. 83.
Gregory, W. K. 1913 E, 5, fig. 2.
Hasse and Schwarck 1870 A, 93, fig. 27.
Henckel, K. O. 1927 A, 375.
Hertz, M. 1925 A, 565.
Hommes, J. H. 1924 A, 21, figs. 17, 22-25, 29-37, 52-54.
Inouye, M. 1912 A, 504 ("maulwurf").
Jacobi, A. 1921 A, 202, 204.
Kampfen, P. N. 1905 A.
1922 A, 55, fig. 1.
Kingsley, J. S. 1925 A, 294, fig. 317.
Köstlin, O. 1844 A.
Kraglievich, L. 1926 C, 61.
Kravetz, L. P. 1905 A, 5.
Kükenthal, W. 1913 A, 644.
Leche, W. 1887 A.
Leche, W. 1900 A, 1009, 1015.
1905 A, 578.
1912 A, 83.
1921 A, 70.
Leunis and Ludwig 1883 A, 211.
Matthew, W. D. 1909 C, 118.
1924 C, 71, 74.
Mead, C. S. 1909 A, 172.
Meckel, J. F. 1825 A.
Meek, A. 1908 A, 1, fig. 3 ("mole").
Miller, G. S. 1912 A, 3.
Mivart, St. G. 1878 B, 283 ("mole").
Mysberg, W. A. 1917 A, 648, fig. 2.
Nauck, E. T. 1926 B, 67.
Nehring, A. 1880 A.
Noordenbos, W. 1905 A, 221.
1905 B, 368 ("maulwurf").
Oken, L. 1823 A, 307, 314.
Osborn, H. F. 1907 G, 209.
Owen, R. 1845 B, 414, pl. x, fig. 3.
1862 B, 152.
1868 A, 910, fig. 241.
Palmer, T. S. 1904 A, 659, 874.
Pander and Alton 1831 A, 26, pl. iv.
Parker, W. K. 1886 A, 159, pl. xvi, figs. 1-7; pls. xxiii-xxviii.
Paulli, S. 1900 B, 486.
Peter, K. 1924 B, 467, figs. 2, 8, 20 ("maulwurf").
Pfeiffer, H. 1854 A, 13.
Pinkus, F. 1904 A, 144 ("maulwurf").
Rehs, J. 1914 A, 103.
Reynolds, S. H. 1897 A, 547 ("mole").
Römer, F. 1907 A, 71.
Scharff, R. F. 1895 A, 471.
1907 A, 58.
1911 A, 142.
Schlosser, M. 1887 B, 126, 128, 131.
1899 J, 355.
1901 F, 301.
1905 A, 327.
1924 A, 4.
Schorr, G. 1908 A, 93, figs.
Seeley, H. G. 1872 A, 277 ("mole").
1876 C, 157 ("mole").
Shimer, H. W. 1903 A, 824.
Sicher, H. 1916 A, 33-112, pls. iii-vi; 20 text-figs.
Taschenberg, O. 1899 A, 4690.
Terra, P. 1911 A, 271, fig. 97.
Tims, H. W. M. 1903 A, 137.
Tornier, G. 1891 A, 119.
Tourneux, F., and J. P. 1912 A, 74, figs. 9, 10 ("taupe").
Trouessart, E. L. 1904 A, 148.
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, II, 190.
Watson, D. M. S. 1917 A, 984.
Weber, M. 1904 A, 377, 378.
Weber and Abel 1928 A, 95, 127, figs. 59, 60.
Weber and Burlet 1927 A, 129, figs. 99, 100.
Wilder, B. 1872 B, 320.
Wilkie, H. C. 1926 A, 820.
Winge, H. 1917 A, 127.
1923 A, 153, 212, 217, pl. iii, fig. 2.
Woodward, A. S. 1893 F, 736.
Wortman, J. L. 1920 A, 34, fig. 13.

Wortman, J. S. 1921 A, 180.
Zittel and Schlosser 1911 A, 367, fig. 527.
1923 A, 668.

Talpa incerta Matthew.

Matthew, W. D. 1924 C, 66, 74 (This genus?).
Upper Miocene (Lower Snake Creek); Nebraska.

Talpa platybrachys Douglass.

Douglass, E. 1903 A, 153, 171, fig. 13 (This genus?).
Matthew, W. D. 1909 C, 114.
1924 C, 73 ("Talpa").
Middle Miocene (Deep River); Montana.

PARASCALOPS True. Type *P. breweri* True.

True, F. W. 1894, Diag. N. A. Mamm., Apr. 26, 2.
Miller, G. S. 1924 C, 13.

Parascalops breweri True.

True, F. W. 1894, Diag. N. A. Mamm., Apr. 26, 2.
Miller, G. S. 1924 C, 13.
Peterson, O. A. 1926 A, 294, figs. 9, 10.
True, F. W. 1894, Proc. U. S. Nat. Mus., XVII, 242.
1895, Science (n.s.), I, 101.
Recent; New Brunswick to Ontario, south in mountains to N. Carolina: Pleistocene; Pennsylvania.

SCALOPUS Geoffroy St. Hilaire. Type *Sorex aquaticus* Linnæus.

Geoffroy St. Hilaire, E. F. 1803, Cat. Mamm. Mus. Hist. Nat., 77.

Unless otherwise indicated the authors, as quoted, employ for this genus the name *Scalops.*

Hay, O. P. 1902 A, 738.
Allen, J. A. 1892 A.
Arldt, T. 1907 D, 255.
Baker, F. C. 1920 A, 208, 214, 397.
Bardeleben, K. 1885 B, 86.
Beddard, F. E. 1902 A, 518.
Cope, E. D. 1880 U, 158.
Cuvier, F. 1808 A, 43, pl. iii ("scalopes").
Cuvier, G. 1805 A.
1825 A, 54, pl. xxii ("scalopes").
Dixey, F. A. 1881 A, 66 ("mole").
Dobson, G. E. 1883 A, 135, 159.
Doran, A. H. G. 1878 A, 436.
Elliot, D. G. 1901 A, 388.
Fischer, J. B. 1829 A, 249.
Gegenbaur, C. 1865 C, 556, fig. 8 ("mole").
Gervais, P. 1853 B, 40 ("taupe").
Giebel, C. G. 1855 A, 16.
1883 A.
Gill, T. 1886 B, 152.
Gottlieb, H. 1914 A, 186.
Jackson, H. H. T. 1915 A, 27 (Scalopus).
Leche, W. 1900 A, 996, 1009, 1014, fig. 87 (Scalops).
Leunis and Ludwig 1883 A, 211.
Matthew, W. D. 1915 K, 402 (Scalopus).
1924 C, 74 (Scalops).
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 7 (Scalopus).
1924 C, 13.
Mivart, St. G. 1868 A, 152.
Osborn, H. F. 1909 D, 90.
1910 B, 469, 521.
Owen, R. 1845 B, 413.
1868 A, 303.
Palacký, J. 1903 C, 344, 348.
Palmer, T. S. 1904 A, 620, 874 (Scalopus).
Pander and Alton 1831 A, 17.
Scharff, R. F. 1895 A, 467.
1911 A, 142.
Schlosser, M. 1887 B, 126, 127.
1901 F, 301.
Scott, W. B. 1913 A, 163.
Shimer, H. W. 1903 A, 824.
Slonaker, J. R. 1920 A, 335.
Tornier, G. 1891 A, 186.
Trouessart, E. L. 1904 A, 150.
Wallace, A. R. 1876 A, II, 190.
Weber and Abel 1928 A, 121.
Wilder, B. 1872 B, 320.
Winge, H. 1917 A, 128.
1923 A, 153, 212, 217.

Scalopus aquaticus (Linnæus).

Unless otherwise indicated the authors, as quoted, employ the generic name *Scalops.*

Linnæus, C. 1758 A, 53 (Sorex).
Hay, O. P. 1902 A, 738.
Bangs, O. 1898 A, 210.
Brown, B. 1908 A, 173, pl. xv.
Coues, E. 1877 C, 633.
Elliot, D. G. 1901 A, 388.
Foote, J. S. 1916 A, 92, pl. ix (Scalopus).
Giebel, C. G. 1883 A, pls. ix, lviii, lxiv.
Hay, O. P. 1914 A, 32 (Scalopus).
1923 A, 310.
1924 D, 252.
Jackson, H. H. T. 1915 A, 32, pl. i, figs. 1, 2; pl. ii, fig. 1; pl. iii, figs. 1, 1a; pl. vi, fig. 3; text-figs. 1, 3-6.
Leche, W. 1907 A, 54.
Leidy, J. 1889 H, 5.
Matthew, W. D. 1924 C, 66, 73 (Scalops. This species?).
Miller, G. S. 1912 B, 7 (Scalopus).
1924 C, 13 (Scalopus).
Owen, R. 1845 B, 413, pl. cx, figs. 2, 3.
Slonaker, J. R. 1920 A, 335, pls. i-iv.
Rhoads, S. N. 1903 A, 227.
Recent; eastern United States: Recent or Pleistocene, Pennsylvania: Pleistocene; Arkansas: Lower Pliocene (Upper Snake Creek); Nebraska.

Scalopus aquaticus australis Chapman.

Chapman, F. 1893, Bull. Amer. Mus. Nat. Hist., v, 339.
Baker, F. C. 1920 A, 374.
Hay, O. P. 1917 E, 45.

Hay, O. P. 1923 A, 382.
Miller, G. S. 1912 B, 8.
Sellards, E. H. 1913 E, 17 (S. sp. indet.).
1916 C, 151 (Scalops); 158 (Scalopus sp.).
Pleistocene; Florida.

Scalopus sp. indet.

Hay, O. P. 1902 A, 738.
1923 A, 312, 313. Pleistocene; Pennsylvania.
1924 D, 304. Pleistocene; Nebraska.
Hay, O. P. 1927 D, 274. Pleistocene; Florida.
Matthew, W. D. 1918 A, 228. Pleistocene (Aftonian); Nebraska.
1923 A, 12 (Scalops). Lower Pliocene (Upper Snake Creek); Nebraska.
1924 C, 73 (Scalops). Pleistocene (Aftonian); Nebraska.
Rhoads, S. N. 1903 A, 228. Pleistocene (Port Kennedy); Pennsylvania.
Simpson, G. G. 1928 H, 2. Pleistocene (Early); Florida.

SCAPANUS Pomel. Type *Scalops townsendii* Bachman.

Pomel, A. 1848 C, 247.
Dobson, G. E. 1883 A, 133.
Elliot, D. G. 1901 A, 391.
Jackson, H. H. T. 1915 A, 54.
Kingsley, J. S. 1925 A, 206, 274, figs. 216, 299.
Matthew, W. D. 1924 C, 74.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 9.
1924 C, 10.
Palacký, J. 1903 C, 349.
Schlosser, M. 1887 B, 126, 127.

Scapanus latimanus Bachman.

Bachman, J. 1842, Boston Jour. Nat. Hist., IV, 34 (Scalops).
Elliot, D. G. 1901 A, 391, fig. 79 (S. townsendi).
Hay, O. P. 1927 D, 215.
Jackson, H. H. T. 1915 A, 64-75, pls. iv-vi.
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 9.
1924 C, 11.
Miller, L. H. 1912 A, 70 (S. californicus?).
Sinclair, W. J. 1903 A, 711 (Scalopus townsendii?).
1904 A, 17 (Scapanus californicus?).
Stock, C. 1925 A, 113.
Recent; California: Pleistocene (Potter Creek cave); California.

Scapanus sp. indet.

Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1927 D, 223. Pleistocene; California.
Merriam, J. C. 1911 B, 235, fig. 4 (This genus?). Pliocene (Thousand Creek); Nevada.
1917 A, 429 (This genus?). Pliocene (Thousand Creek); Nevada).
Stock, C. 1925 A, 113. Pleistocene (Caves); California.

ANOMODON Le Conte. Type *A. snyderi* Le Conte.

Hay, O. P. 1902 A, 741.
Cope, E. D. 1880 U, 158.
Palmer, T. S. 1904 A, 106, 870.

Anomodon snyderi Le Conte.

Hay, O. P. 1902 A, 741.
Gervais, P. 1859 A, 365.
Hay, O. P. 1914 A, 38.
1923 A, 479.
Palacký, J. 1903 C, 344, 345.
Ruschenberger and Tryon 1879 A, 89.
Whitney, J. D. 1862 A, 136 (Anamodon).
Pleistocene; Illinois.

GEOLABIS Cope. Type *G. rhynchæus* Cope.

Hay, O. P. 1902 A, 739.
Palmer, T. S. 1904 A, 293, 871.
Seeley, H. G. 1886 A, 514.

Geolabis rhynchæus Cope.

Hay, O. P. 1902 A, 739.
Matthew, W. D. 1909 C, 105.
Osborn, H. F. 1910 B, 521 ("Georhynchus." This genus?).
Middle Oligocene (Cedar Creek); Colorado.

ENTOMODON Marsh. Type *E. comptus* Marsh.

Hay, O. P. 1902 A, 740.
Heilprin, A. 1887 A, 348.
Palmer, T. S. 1904 A, 261, 898.

Entomodon comptus Marsh.

Hay, O. P. 1902 A, 740.
Osborn, H. F. 1902 C, 173, 189.
Thorpe, M. R. 1923 A, 25.
Trouessart, E. L. 1904 A, 42 (Sarcolemur); 157 (Entomodon).
Middle Eocene (Bridger); Wyoming.

SORICIDÆ Gray.

Gray, J. E. 1821 A, 300.
Hay, O. P. 1902 A, 738.
Abel, O. 1913 B, 710.
1914 A, 50.
Ärnbäck-Christie-Linde, A. 1907 A, 463.
Ärnbäck-Christie-Linde 1912 A, 601.
1912 B, 20 ("soriciden").
Ameghino, F. 1902 B, 11.
1902 D, 423 ("soricidés").
Arldt, T. 1907 D, 682.

Arldt, T. 1912 A, 704.
Beddard, F. E. 1902 A, 518.
Brandt and Woldrich 1887 A, 19 (Soricina).
Carter, J. T. 1922 A, 603 (Soricinæ).
Carus, V. 1875 A, 90 (Soricidea).
Chandler, A. C. 1914 B, 134.
Coues, E. 1877 C, 631, 634.
Cuvier, F. 1808 A, 40 ("musaraignes").
1825 A, 58 ("musaraignes").
Depéret, C. 1906 A, 620 ("soricidés").
1906 B, 1122 ("soricidés").
Dobson, G. E. 1883 A, 2.
1891 A, 349.
Elliot, D. G. 1901 A, 366.
Gegenbaur, C. 1865 C, 552.
Gervais, P. 1859 A, 54 ("soricidés").
Giebel, C. G. 1883 A ("spitzmäuse").
Gill, T. 1886 B, 146.
Gray, J. E. 1837 B, 123 (Sorices).
Gregory, W. K. 1910 A, 263, 265.
Hinton, M. A. C. 1911 A, 529 (Soricinæ).
Hoernes, R. 1886 A, 701.
Howes and Harrison 1893 A, 790.
Leche, W. 1887 A.
1900 A, 1009, 1016.
1905 A, 578.
1907 A, 50, 120, 146.
Leunis and Ludwig 1883 A, 208 (Soricidea).
Lobley, J. L. 1908 A, 200, 204.
Mansion, A. 1904 A, 169 ("soricidés").
Matthew, W. D. 1905 D, 48.
1909 C, 105, 110.
1910 A, 36.
1915 A, 225, fig. 12.
Matthew, W. D. 1915 K, 449, fig. 17 ("shrews").
1921 D, 214.
1928 B, 975 ("shrews").
Meckel, J. F. 1825 A ("spitzmäuse").
Miller, G. S. 1912 A, 28.
1912 B, 12.
1924 C, 17.
Osborn, H. F. 1909 D, 52.
Owen, R. 1845 B, 416.
1868 A, 909.
Palacký, J. 1903 C, 343 ("soriciden").
Palmer, T. S. 1904 A, 770, 872.
Pictet, F. J. 1853 A, 173 ("soriciens").
Rehs, J. 1914 A, 103.
Reynolds, S. H. 1897 A, 499.
Schlosser, M. 1887 B, 89, 91, 121.
Schwarz, E. 1924 A, 420 ("shrews").
Seton, E. T. 1909 A, 1091.
Taschenberg, O. 1899 A, 4681.
Terra, P. 1911 A, 267 ("soriciden").
Van den Broeck, A. J. P. 1912 A, 784.
Vicq-d'Azyr, F. 1792 A, cii (Soricii).
1819 A, 33 (Soricii).
Wallace, A. R. 1876 A, I, 118; II, 191.
1894 A, 435.
Weber, M. 1904 A, 377, 379 (Soricinæ).
Weber and Abel 1928 A, 115, 120, 127.
Weber and Burlet 1927 A.
Winge, H. 1917 A, 130, 186.
1923 A, 125, 155, 164, 183, 203 (Soricidæ, Plesiosoricini, Soricini).
Woodward, A. S. 1898 B, 403.
Zittel and Schlosser 1911 A, 368.
1923 A, 446.

PROTOSOREX Scott. Type *P. crassus* Scott.

Hay, O. P. 1902 A, 738.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 110.
Palmer, T. S. 1904 A, 585, 873.
Winge, H. 1917 A, 136.
1923 A, 160, 182.
Zittel and Schlosser 1911 A, 368.
1923 A, 446.

Protosorex crassus Scott.

Hay, O. P. 1902 A, 738.
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1901 B, 376.
1909 C, 105.
O'Hara, C. C. 1910 A, 85, 125.
1920 A, 151.
Palacký, J. 1903 C, 343.

Middle Oligocene (Brule); South Dakota and Nebraska.

MICROSOREX Baird. Type *Sorex hoyi* Baird.

Baird, S. F. 1877, in Coues, E. 1877 C, 643, 646.
Brown, B. 1908 A, 173.
Elliot, D. G. 1901 A, 377.
Merriam, C. H. 1895 C, 89 (Subgenus of Sorex).
Miller, G. S. 1895 A, 42.
1912 B, 22.
Osborn, H. F. 1909 D, 90.
Palmer, T. S. 1904 A, 423, 872.
Trouessart, E. L. 1904 A, 135.

Microsorex minutus Brown, B.

Brown, B. 1908 A, 173, pl. xiv.
Hay, O. P. 1914 A, 32.
1924 D, 252.

Pleistocene (Middle); Arkansas.

SOREX Linnæus. Type *S. araneus* Linnæus.

Linnæus, C. 1758 A, 53.
Ärnbäck-Christie-Linde, A. 1907 A, 464.
1912 A, 602, pl. xviii, fig. 1; pl. xix; text-figs. 1-6.
1912 B, 201.
Allen, J. A. 1892 A.
1903 A.
Anthony, R. 1913 A, 261.
Beddard, F. E. 1902 A, 518.
Bluntschli, H. 1912 B, 390.
Brandt and Woldrich 1887 A, 19.
Bronn, H. G. 1848 B, 1157.
1849 A, 724.
Broom, R. 1909 C, 135.

Broom, R. 1915 A, 349, 351.
1926 A, 263.
Carus and Engelmann 1861 A, 1806.
Coues, E. 1877 C, 643.
Cuvier, F. 1808 A, 43.
1825 A, 50, pl. xx ("musaraignes").
Cuvier, G. 1805 A, *passim.*
Dieterich, K. 1841 A, 75.
Dobson, G. E. 1891 A, 349.
Doran, A. H. G. 1878 A, 433, pl. lxii.
Eggeling, H. 1904 A, 95.
Elliot, D. G. 1901 A, 366.
Foote, J. S. 1916 A, 92, pl. ix.
Frassetto, F. 1915 A.
Frey, H. 1911 A, 397.
Fuchs, H. 1909 B, 142.
Gaupp, E. 1913 A, 125.
Gegenbaur, C. 1864 C, 191.
1865 C, 553, fig. 5.
Geinitz, E. 1903 A.
1904 A.
Gervais, P. 1852 A, 12.
1859 A, 55.
Giebel, C. G. 1855 A, 17.
1883 A, pls. ix, li, lxxx.
Gill, T. 1886 B, 148.
Gray, J. E. 1837 B, 123.
Hertz, M. 1925 A, 556.
Hinton, M. A. C. 1911 A, 529, 530.
Hollister, N. 1911 B, 377.
Hommes, J. H. 1924 A, 39.
Jacobi, A. 1921 A, 202.
Leboucq, H. 1884 A, 73.
Leche, W. 1887 A.
1905 A, 578.
1912 A, 83.
Leunis and Ludwig 1883 A, 209.
Lubosch, W. 1911 B, 744, 746.
Lull, R. S. 1922 C, 603.
Mansion, A. 1904 A, 169.
Matthew, W. D. 1915 K, 402.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
1895 C, 57.
Miller, G. S. 1895 A, 35, 42.
1912 A, 29.
1912 B, 12.
1924 C, 17.
Mivart, St. G. 1868 A.
Nehring, A. 1880 A.
Oken, L. 1823 A, 309.
Osborn, H. F. 1909 D, 90.
1910 B, 259, 521.
Owen, R. 1845 B, 417, pl. cx, fig. 4; pl. cxi, fig. 2.
1866 B, 277, fig. 155.
Palacký, J. 1902 B, 142.
1903 C, 343, 346.
Palmer, T. S. 1904 A, 638, 873.
Pander and Alton 1831 A, 17.
Parker, W. K. 1886 A, 197, pl. xvi, figs. 10-12: pls. xxix-xxxi.
Paulli, S. 1900 B, 486.
Pictet, F. J. 1853 A, 173, pl. 1, figs. 8, 9.
Retzius, A. 1837 A, 489.
Scharff, R. F. 1895 A, 445.
Schlosser, M. 1899 J, 355.
1905 A, 327.
Seton, E. T. 1909 A, 1091.
Stromer, E. 1924 A, 248.
Tims, H. W. M. 1902 A, 335.
Tornier, G. 1891 A, 119.
Trouessart, E. L. 1904 A, 130.
Vicq-d'Azyr, F. 1819 A, 33.
Wagner, R. 1843 A.
Weber, M. 1904 A, 379.
Weber and Abel 1928 A, 120, 127.
Weber and Burlet 1927 A.
Winge, H. 1917 A, 141.
1923 A, 88, 162, 217, 218.
Woodward, A. S. 1895 F, 736.
Zittel and Schlosser 1911 A, 368.
1923 A, 446, fig. 566.
Zuckerkandl, E. 1908 A, 523.

Sorex frankstounensis Peterson.

Peterson, O. A. 1926 A, 292, fig. 8.
Pleistocene; Pennsylvania.

Sorex fumeus G. S. Miller.

Miller, G. S. 1895 A, 50, pl. v, fig. 5; pl. vi, fig. 5.
Baird, S. F. 1857 A, 22 (S. forsteri); 24 (S. richardsoni).
Brown, B. 1908 A, 172 (This species?).
Elliot, D. G. 1901 A, 369.
Hay, O. P. 1914 A, 31.
1924 D, 252.
Hollister, N. 1911 B, 380.
Merriam, C. H. 1895 C, 65, pl. ix, fig. 2.
Miller, G. S. 1912 B, 13, 14.
Seton, E. T. 1909 A, 1106, text-fig. 252 (S. richardsonii).
Recent; Eastern Canada, southward in Alleghenies to North Carolina and Tennessee: Pleistocene (Middle); Arkansas.

Sorex obscurus C. H. Merriam.

Merriam, C. H. 1895 C, 72, pl. viii, fig. 1.
Brown, B. 1908 A, 172, pl. xiv.
Elliot, D. G. 1901 A, 371.
Hay, O. P. 1914 A, 31.
1924 D, 252.
Merriam, C. H. 1891, N. A. Fauna, No. 5, 34, pl. iv, fig. 3 (S. vagrans similis).
Miller, G. S. 1912 B, 15.
1924 C, 17.
Recent; In mountain regions of British Columbia to Colorado and California: Pleistocene (Middle); Arkansas.

Sorex personatus I. Geoffroy St. Hilaire.

Geoffroy St. Hilaire, I. 1827, Mém. Mus. Nat., Paris, xv, 122.
Dobson, G. E. 1883 A (1890), 1, pl. xxiii, fig. 10; pl. xxviii, fig. 1.
1891 A, 349.
Elliot, D. G. 1901 A, 366.
Hay, O. P. 1914 A, 31.
1924 D, 252.
Merriam, C. H. 1895 C, 60, pl. vii, fig. 5; pl. ix, fig. 7.
Miller, G. S. 1895 A, 53, pl. iv, figs. 1, 5, 6, 7, 8; pl. vi, figs. 7, 8.
1924 C, 17.
Peterson, O. A. 1926 A, 292.

Seton, E. T. 1909 A, 1091, text-fig. 248, map 57.
Recent; Eastern United States.
Typical form not known fossil.

Sorex personatus fossidens B. Brown.

Brown, B. 1908 A, 171, pl. xiv.
Hay, O. P. 1914 A, 31.
1924 D, 252.
Hollister, N. 1911 B, 377 (S. personatus).
Pleistocene (Middle); Arkansas.

CRYPTOTIS Pomel. Type *Sorex cinereus* Bachman = *S. parvus* Say.

Pomel, A. 1848, Archiv. Sci. Phys. et Nat. Genève, IX, 249.
Merriam, C. H. 1895 B, 16 (Subgenus).
Miller, G. S. 1912 B, 24.
1924 C, 30.

Cryptotis floridana (Merriam).

Merriam, C. H. 1895 B, 19, pl. i, fig. 7 (Blarina).
Elliot, D. G. 1901 A, 385 (Blarina).
Hay, O. P. 1923 A, 382.
Miller, G. S. 1912 B, 25.
1924 C, 31.
Sellards, E. H. 1916 C, 139, 151, 158.
1916 D, 616.
1916 E, 16.
Recent; Peninsular Florida: Pleistocene; Florida.

BLARINA Gray. Type *Sorex talpoides* Gapper = *S. brevicaudus* Say.

Hay, O. P. 1902 A, 738.
Ärnbäck-Christie-Linde, A. 1912 B, 282.
Coues, E. 1877 C, 631, 647, 648.
Dobson, G. E. 1891 A, 349.
Elliot, D. G. 1901 A, 381.
Gill, T. 1886 B, 148.
Heilprin, A. 1887 A, 346.
Leche, W. 1912 A, 83.
Matthew, W. D. 1909 C, 90.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 23.
1924 C, 35.
1927 A, 9.
Osborn, H. F. 1909 D, 1, 90.
1910 B, 469, 521.
Seton, E. T. 1909 A, 1116.
Trouessart, E. L. 1904 A, 136.
Weber, M. 1904 A, 679.

Blarina brevicauda (Say).

Say, T. 1823, Long's Exped. Rocky Mts., I, 164 (Sorex).
Baird, S. F. 1857 A, 42, pl. xxx, fig. 5.
Elliot, D. G. 1901 A, 382, fig. 74.
Gidley, J. W. 1913 B, 96 (This species?).
Hay, O. P. 1923 A, 350.
Merriam, C. H. 1895 B, 10, pl. i, figs. 2-4; pl. ii, figs. 1-4.
Miller, G. S. 1912 B, 23.
1924 C, 35.
Peterson, O. A. 1926 A, 293.
Seton, E. T. 1909 A, 1116, text-fig. 253-260.
Recent; western Nebraska and Manitoba to Atlantic: Pleistocene; Maryland.

Blarina brevicauda ozarkensis B. Brown.

Brown, B. 1908 A, 170, pl. xv, fig.
Hay, O. P. 1914 A, 31.
Pleistocene (Middle); Arkansas.

Blarina brevicauda peninsulæ Merriam, C. H.

Merriam, C. H. 1895 B, 14 (B. carolinensis pen.).
Elliot, D. G. 1901 A, 383.
Hay, O. P. 1923 A, 382.
Sellards, E. H. 1916 C, 151 (B. brev. pen.?); 139, 158 (B. sp.).
1916 E, 16 (B. sp.).
Miller, G. S. 1912 B, 24.
1924 C, 35.
Recent; Florida: Pleistocene; Florida.

Blarina simplicidens Cope.

Hay, O. P. 1902 A, 738.
1923 A, 312.
Baker, F. C. 1920 A, 208, 214, 397.
Brown, B. 1908 A, 171.
Peterson, O. A. 1926 A, 293.
Rhoads, S. N. 1903 A, 227.
Early Pleistocene (Port Kennedy); Pennsylvania.

Blarina sp. indet.

Cope, E. D. 1869 E, 175. Pleistocene (Caves); Virginia.
Hay, O. P. 1923 A, 322, 353. Pleistocene; Pennsylvania, Virginia.

Suborder HYOPSODONTA Osborn.

Osborn, H. F. 1910 B, 522.

Superfamily HYOPSODONTOIDÆ, new name.

HYOPSODONTIDÆ Lydekker.

Lydekker, R. 1887 in Nicholson and Lydekker 1887 A, 1465.
Hay, O. P. 1902 A, 788 (Limnotheriidæ).
Abel, O. 1908 C, (36).
1913 B, 710.
Abel, O. 1914 A, 51, 254.
1922 C, 290 ("hyopsodontiden").
1926 B, 396, 411.
Abel and Cook 1925 A, 33, 34.
Ameghino, F. 1906 A, 291.

Bluntschli, H. 1911 A, 121.
1912 B, 354 ("hyopsodontiden").
Chapman, H. C. 1904 A, 149, 155 (Hyopsodinæ).
Gregory, W. K. 1915 A, 420.
1920 A, 246.
1922 A, 118, 280.
Hubrecht, A. A. W. 1908 A, 159 (Hyopsodidæ).
Loomis, F. B. 1905 A, 416 (Hyopsodidæ).
Lydekker, R. 1910 F, 657.
Marsh, O. C. 1872 I, 205 (Limnotheriidæ).
Matthew, W. D. 1905 C, 298 (Hyopsodontidæ); 299 (Hyopsodidæ).
1909 C, 92, 93, 96, 99, 101.
1909 D, 299, 507, 508, 513.
1914 B, 387.
1915 E, 311, 312.
1915 K, 442 (Limnotheriidæ).
1921 D, 214.
Nicholson and Lydekker 1889 A, 1465.
Osborn, H. F. 1901 D, 623.
1902 C, 176, 179.
1909 D, 46, 52, 59.
1910 B, 125, 522.
Palmer, T. S. 1904 A, 747, 897.
Pia, J. 1916 A, 129 ("hyopsodontinen").
Schlosser, M. 1887 B, 21, 43, 54 (Hyopsodidæ).
1905 A, 327 ("hyopsodiden").
1907 C, 222.
Trouessart, E. L. 1904 A, 41 (Hyopsodinæ).
Wallace, A. R. 1876 A, I, 133 (Limnotheridæ).
Weber, M. 1904 A, 761 (Hyopsodidæ); 763 (Hyopsodontidæ).
Weber and Abel 1928 A, 124, 426, 628.
Wortman, J. L. 1903 A, xv, 400 (Hyopsodidæ).
Zittel and Schlosser 1911 A, 369.
1923 A, 447, 666, 667, 669.

HYOPSODUS Leidy. Type *H. paulus* Leidy.

Hay, O. P. 1902 A, 790 (Hyopsodus); 789 (Lemuravus).
Abel, O. 1922 C, 290.
Abel and Cook 1925 A, 33.
Bluntschli, H. 1912 B, 370.
Bolk, L. 1914 A, 132, fig. 40.
Chardin, T. 1922 A, 45, 82.
Cope, E. D. 1880 U, 149.
Delafontaine, M. 1875 A, 171 (Hyopsodus, Lemuravus).
Depéret, C. 1905 C, 704.
Dollo and Chardin 1924 A, 16.
Gidley, J. W. 1923 A, 18.
Granger, W. 1909 A, 22.
1914 A, 203.
Gregory, W. K. 1910 A, 360.
1912 C, 194.
1917 D, 632.
1920 A, 175, fig. 131.
1921 A.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 348, 403 (Hyopsodus); 403 (Lemuravus).
Hennig, E. 1921 A, 221.
Loomis, F. B. 1905 A, 418, fig. 1.
1905 C, 296.
Matthew, W. D. 1909 C, 101, 516.
1909 D, 513, 521.
1915 E, 314.
1915 G, 383.
1915 I, 152.
1915 K, 472, 421.
1918 H, 567.
1924 E, 749.
1928 B, 962, 968.
Osborn, H. F. 1901 D, 623 (Hypsodus).
1902 C, 180, 186.
1902 D, 266, fig. 5.
1905 I, 99.
1905 L, 568.
1907 G, 128, figs. 77-80, 127, 128, 214.
1909 D, 127.
1910 B, 125, 133, 165, 522.
1912 G, 236, fig. 3.
1925 C, 750.
Palmer, T. S. 1904 A, 339, 898 (Hyopsodus); 368, 898 (Lemuravus).
Perrier, E. 1920 A, 373.
Pia, J. 1916 A, 129 (Syn. of Lemuravus).
Schlosser, M. 1902 D, 302.
1902 J, 132, 230.
1903 A, 289.
Stehlin, H. G. 1906 A, 634.
1916 B, 1434, 1484.
Trouessart, E. L. 1904 A, 41.
Troxell, E. L. 1926 A, 423.
Wallace, A. R. 1876 A, I, 133.
Weber, M. 1904 A, 763.
Weber and Abel 1928 A, 629, 674.
Winge, H. 1917 A, 174.
Wortman, J. L. 1903 A, xv, 431.
Zittel and Schlosser 1911 A, 370.
1923 A, 448, 665.

Hyopsodus despiciens Matthew.

Matthew, W. D. 1909 D, 520, text-figs. 103-105.
1915 E, 317.
Zittel and Schlosser 1911 A, 369, fig. 533 (H. decipiens).
1923 A, 448, fig. 570 (H. decipiens).
Middle Eocene (Bridger); Wyoming.

Hyopsodus lepidus Matthew.

Matthew, W. D. 1909 D, 521, pl. xlviii, figs. 4, 6.
1915 E, 317.
Middle Eocene (Bridger); Wyoming.

Hyopsodus markmani Abel and Cook.

Abel and Cook 1925 A, 34, figs. 1-4.
Abel, O. 1926 B, 396, 411.
1926 H, (160).
1928 B, 21.
Weber and Abel 1928 A, 628.
Early Eocene; Colorado.

Hyopsodus marshi Osborn.

Osborn, H. F. 1902 C, 175, 187, fig. 13.
Hennig, E. 1922 A, 221, fig. 3.
Matthew, W. D. 1909 C, 96.
1909 D, 519, pl. xlviii, fig. 11.
1915 E, 317.
Trouessart, E. L. 1904 A, 42.
Middle Eocene (Bridger); Wyoming.

Hyopsodus mentalis (Cope).

Hay, O. P. 1902 A, 793 (Sarcolemur); 790 (H. lemoinianus).
Loomis, F. B. 1905 A, 420, 424, fig. 3 (H. lemoinianus).
1907 B, 357 (H. lemoinianus).
Matthew, W. D. 1909 C, 93 (H. lemoinianus).
1915 E, 317, 319, fig. 5 (H. lemoinianus a syn.).
Osborn, H. F. 1902 C, 174, 175 (To Pelycodus?).
Trouessart, E. L. 1904 A, 40 (Pelycodus); 42 (H. lemoinianus).
Lower Eocene (Wasatch); New Mexico, Wyoming.

Hyopsodus mentalis lysitensis Matthew.

Matthew, W. D. 1915 E, 320, 326.
Osborn, H. F. 1902 C, 175, 183, figs. 7, 8 (H. lemoinianus).
Lower Eocene (Wind River); Wyoming.

Hyopsodus minor Loomis.

Loomis, F. B. 1905 A, 422, 424, fig. 6.
Matthew, W. D. 1909 C, 93.
1915 E, 324 (H. wortmani? minor).
Lower Eocene (Wind River); Wyoming.

Hyopsodus minusculus Leidy.

Hay, O. P. 1902 A, 790.
Matthew, W. D. 1909 C, 96.
1909 D, 519, pl. xlviii, fig. 8; pl. xlix, fig. 3.
1915 E, 317.
Osborn, H. F. 1902 C, 173, 186.
Middle Eocene (Bridger); Wyoming.

Hyopsodus miticulus Cope.

Hay, O. P. 1902 A, 790.
Loomis, F. B. 1905 A, 419, 420, 424.
Matthew, W. D. 1909 C, 93.
1915 E, 317, 318, fig. 4.
Osborn, H. F. 1902 C, 174, 183, fig. 6.
Reeside, J. B. 1924 A, 46.
Trouessart, E. L. 1904 A, 41.
Lower Eocene (Wasatch); New Mexico: (Grey Bull); Wyoming.

Hyopsodus paulus Leidy.

Hay, O. P. 1902 A, 791 (H. paulus, H. vicarius); 789 (Lemuravus distans).
Abel, O. 1913 B, 711, fig. 11.
1914 A, 51, fig. 24.
1922 C, 290, fig. 244.
Abel and Cook 1925 A, 33, 35.
Ameghino, F. 1906 A, 291, fig. 74.
Baird, S. F. 1876 A, 336 (Lemuravus distans).
Bluntschli, H. 1912 B, 368, fig. 10.
Cope, E. D. 1872 NN, 2.
Loomis, F. B. 1905 A, 419.
Matthew, W. D. 1909 C, 96.
1909 D, 517, pl. xlvii, fig. 3; pl. xlviii, figs. 2, 3, 5, 7.
1915 E, 317.
Merrill, G. P. 1907 A, 41.
Osborn, H. F. 1902 C, 172, 182, 185, fig. 5 (H. paulus); 173, 187, fig. 12 (H. vicarius); 174, 187 (H. distans).
Seeley, H. G. 1886 A, 416, fig. (H. vicarius).
Stehlin, H. G. 1906 A, 634, fig. 79.
Trouessart, E. L. 1904 A, 42 (H. paulus, H. distans).
Weber, M. 1904 A, 763, fig. 546.
Weber and Abel 1928 A, 628, fig. 424.
Zittel and Schlosser 1911 A, 369, fig. 532.
1923 A, 448, fig. 569.
Middle Eocene (Bridger); Wyoming.

Hyopsodus powellianus Cope.

Hay, O. P. 1902 A, 791.
Loomis, F. B. 1905 A, 421, 424, fig. 4.
1907 B, 357.
Matthew, W. D. 1909 C, 93.
1915 E, 317, 320, figs. 6, 7.
Osborn, H. F. 1902 C, 175, 184, fig. 9.
Sinclair and Granger 1911 A, 108.
Trouessart, E. L. 1904 A, 42.
Lower Eocene (Wasatch); Wyoming.

Hyopsodus powellianus browni Loomis.

Loomis, F. B. 1905 A, 422-424, fig. 7 (H. browni); 425 (H. jacksoni, H. lawsoni).
Matthew, W. D. 1909 C, 93 (H. jacksoni, H. browni).
1915 E, 322 (H. jacksoni and H. lawsoni, syns.).
Lower Eocene (Wind River); Wyoming.

Hyopsodus simplex Loomis.

Loomis, F. B. 1905 A, 419, 424, fig. 2.
Abel and Cook 1925 A, 35.
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 93.
1915 E, 316, 317, fig. 3.
Lower Eocene (Wasatch); Wyoming.

Hyopsodus uintensis Osborn.

Osborn, H. F. 1902 C, 175, 176, 188, figs. 3, 14, 15.
Matthew, W. D. 1909 C, 99.
Trouessart, E. L. 1904 A, 42.
Upper Eocene (Uinta); Utah.

Hyopsodus walcottianus Matthew.

Matthew, W. D. 1915 E, 317, 322, figs. 8-10.
Gregory, W. K. 1920 A, 244.
Weber and Abel 1928 A, 629, fig. 425.
Lower Eocene (Wind River); Wyoming.

Hyopsodus wortmani Osborn.

Osborn, H. F. 1902 C, 175, 185, fig. 11.
Loomis, F. B. 1905 A, 421, 424, fig. 5.
Matthew, W. D. 1909 C, 93.
1915 E, 317, 324.
Trouessart, E. L. 1904 A, 42 (H. wortmanni).
Lower Eocene (Wind River); Wyoming.

Hyopsodus sp. indet.

Granger and Simpson 1928 A, 1 (Diacodexus). Wasatch (Sand Coulee); Wyoming.
Matthew, W. D. 1909 C, 93, 96. Eocene (Wind River); New Mexico: (Bridger); Wyoming.
Osborn, H. F. 1909 D, 49. Eocene (Upper Huerfano); Colorado.
Sinclair and Granger 1911 A, 91.

HAPLOMYLUS Matthew. Type *Microsyops speirianus* Cope.

Matthew, W. D. 1915 E, 313.
Gregory, W. K. 1916 A, 244, pl. i, N.
Zittel and Schlosser 1923 A, 569.

Haplomylus speirianus (Cope).

Cope, E. D. 1880 O, 908 (Hyopsodus).
Hay, O. P. 1902 A, 791 (Microsyops).
Gregory, W. K. 1922 A, 120, fig. 55.
Matthew, W. D. 1909 C, 93 (Anaptomorphus).
1915 E, 313, figs. 1, 2.
Osborn, H. F. 1902 C, 174, 210, fig. 37 ("Microsyops"; Anaptomorphus?).
Trouessart, E. L. 1904 A, 40 (Anaptomorphus); 291 (Microsyops).
Lower Eocene (Wind River); Wyoming.

Suborder PROGLIRES Osborn.

Osborn, H. F. 1902 C, 203.
Abel, O. 1914 A, 51.
Hubrecht, A. A. W. 1908 A, 161.
Lydekker, R. 1903 D, 125.
Matthew, W. D. 1909 C, 92.
1909 D, 546, 549.
1912 B, 186.
Osborn, H. F. 1905 I, 101.
1907 G, 13, 144, 145.
1907 H, 613.
1910 B, 522.
Schlosser, M. 1911 A, 71.
Wortman, J. L. 1903 A, xv, 402.
Zittel and Schlosser 1911 A, 370.
1923 A, 448.

Superfamily MIXODECTOIDÆ, new name.

PLESIADAPIDÆ Trouessart.

Trouessart, E. L. 1897 A, 75.
Arldt, T. 1912 A, 704 (Apatemydidæ).
Gidley, J. W. 1923 A, 11.
Gregory, W. K. 1912 C, 194 (Apatemydidæ).
1913 A, 117 (Apatemydidæ).
1921 A, 70, 235.
1922 A, 116, 119, 279.
1927 I, 557, 559 ("plesiadapids").
Matthew, W. D. 1909 C, 96, 101 (Apatemydidæ).
1909 D, 298, 543 (Apatemydidæ).
1914 B, 387 (Apatemydidæ).
1915 F, 477 (Apatemydidæ).
1915 K, 444 (Apatemydidæ).
1916 I, 109 (Apatemydidæ).
1918 H, 569.
1921 A, 4.
Matthew, W. D. 1921 D, 214.
1928 B, 957, 965 (Plesiadapidæ); 975 (Apatemyidæ).
Ossenkopp, G. J. 1925 A, 473, 477.
Osborn, H. F. 1910 B, 522 (Apatemydidæ).
Simpson, G. G. 1928 A, 5.
Stehlin, H. G. 1916 B, 1388 (Apatemydæ).
Troxell, E. L. 1923 E, 503 (Apatemydidæ).
Trouessart, E. L. 1904 A, 289.
Weber and Abel 1928 A, 125, 739, 740.
Winge, H. 1917 A, 175 (Apatemydæ); 176 (Apatomydæ).
1923 A, 190 (Apatomyidæ).
Zittel and Schlosser 1911 A, 371.
1923 A, 642.

Schlosser arranges this family in the Lemuriformes.

APATEMYS Marsh. Type *A. bellus* Marsh.

Hay, O. P. 1902 A, 725.
Black, D. 1925 A, table.
Chardin, T. 1922 A, 24, 96.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 101.
1909 D, 544.
1917 C, 833.
1921 H, 511.
Osborn, H. F. 1910 B, 522.
Ossenkopp, G. J. 1925 A, 474.
Palmer, T. S. 1904 A, 111, 849.
Stehlin, H. G. 1916 B, 1388.
Weber and Abel 1928 A, 125.
Zittel and Schlosser 1923 A, 643.

Apatemys bellulus Marsh.

Hay, O. P. 1902 A, 725.
Matthew, W. D. 1909 C, 96.
1909 D, 544, pl. lii, figs. 3, 4.
Ossenkopp, G. J. 1925 A, 474.
Trouessart, E. L. 1904 A, 478.
Troxell, E. L. 1923 E, 504, figs. 3, 4.
Middle Eocene (Bridger); Wyoming.

Apatemys bellus Marsh.

Hay, O. P. 1902 A, 725.
Chardin, T. 1922 A, 94.
Matthew, W. D. 1909 C, 96.
1909 D, 545, pl. ii, figs. 1, 2.
Ossenkopp, G. J. 1925 A, 474.
Trouessart, E. L. 1904 A, 478.
Troxell, E. L. 1923 E, 503, figs. 1, 2.
Middle Eocene (Bridger); Wyoming.

Apatemys rodens Troxell.

Troxell, E. L. 1923 E, 504, figs. 5, 6.
Middle Eocene (Bridger); Wyoming.

PRONOTHODECTES Gidley. Type *P. matthewi* Gidley.

Gidley, J. W. 1923 A, 12.
Ossenkopp, G. J. 1925 A, 476.
Simpson, G. G. 1927 B, 5, 10.
Weber and Abel 1928 A, 740.

Pronothodectes matthewi Gidley.

Gidley, J. W. 1923 A, 12, pl. iii, fig. 2.
Ossenkopp, G. J. 1925 A, 476.
Paleocene (Fort Union); Montana.

PHENACOLEMUR Matthew. Type *P. præcox* Matthew.

Matthew, W. D. 1915 F, 479.
Black, D. 1925 A, table.
Carter, J. T. 1922 A, 604.
Chardin, T. 1922 A, 82, 95.
Gidley, J. W. 1923 A, 8.
Matthew, W. D. 1917 C, 833, 837.
1918 H, 569.
Ossenkopp, G. J. 1925 A, 474.
Stehlin, H. G. 1916 B, 1388, 1506.
Weber and Abel 1928 A, 740.
Zittel and Schlosser 1923 A, 642.

Phenacolemur citatus Matthew.

Matthew, W. D. 1915 F, 481, fig. 51.
1918 H, 569.
Ossenkopp, G. J. 1925 A, 474.
Lower Eocene (Wasatch); Wyoming.

Phenacolemur præcox Matthew.

Matthew, W. D. 1915 F, 479, figs. 49, 50.
Ossenkopp, G. J. 1925 A, 474.
Lower Eocene (Wasatch); Wyoming.

LABIDOLEMUR Matthew and Granger. Type *L. soricoides* Matthew and Granger.

Matthew and Granger 1921 A, 4.
Black, D. 1925 A, table.
Ossenkopp, G. J. 1925 A, 475.
Weber and Abel 1928 A, 740.
Zittel and Schlosser 1923 A, 642.

Labidolemur soricoides Matthew and Granger.

Matthew and Granger 1921 A, 4.
Ossenkopp, G. J. 1925 A, 475.
Reeside, J. B. 1924 A, 47.
Simpson, G. G. 1928 A, 15.
Paleocene (Tiffany); Colorado.

Labidolemur sp. indet.

Simpson, G. G. 1928 A, 15, fig. 14. Paleocene (Fort Union); Montana.

UINTASOREX Matthew. Type *U. parvulus* Matthew.

Matthew, W. D. 1909 D, 545.
Black, D. 1925 A, table.
Chardin, T. 1922 A, 96.
Matthew, W. D. 1917 C, 833.
Osborn, H. F. 1910 B, 522.
Ossenkopp, G. J. 1925 A, 474.
Troxell, E. L. 1923 E, 503.
Stehlin, H. G. 1916 B, 1388.
Zittel and Schlosser 1923 A, 643.

Uintasorex parvulus Matthew.

Matthew, W. D. 1909 D, 546, pl. lii, fig. 6.
Ossenkopp, G. J. 1925 A, 474.
Middle Eocene (Bridger); Wyoming.

PLESIADAPIS Gervais. Type *P. tricuspidens* Gervais.

Gervais, P. 1877, Jour. de Zool., Paris, VI, 76, figs. 1, 2.
Abel, O. 1914 A, 256.
1919 A, 875.
Chardin, P. T. 1927 A, 27.
Flower and Lydekker 1891 A, 698, fig. 334.
Jaekel, O. 1911 A, 215.
Nicholson and Lydekker 1889 A, 1467.
Ossenkopp, G. J. 1925 A, 475, 488, fig. 3.
Palmer, T. S. 1904 A, 547, 901.
Weber, M. 1904 A, 508, 511, 762.
Weber and Abel 1928 A, xxi, 740.
Zittel, K. A. 1890 A, 700, fig. 579.
Zittel and Schlosser 1911 A, 371.
1923 A, 642.

Plesiadapis sp. indet.

Simpson, G. G. 1928 A, 7 (This genus?). Paleocene (Fort Union); Montana.

NOTHODECTES Matthew. Type *N. dubius* Matthew.

Matthew, W. D. 1915 F, 482.
Black, D. 1925 A, table.
Carter, J. T. 1922 A, 604.
Chardin, T. 1922 A, 96.
Gidley, J. W. 1917 B, 59.
1923 A, 9, 11, 15, 17.
Granger, W. 1917 A, 827.
Gregory, W. K. 1921 A, 77, pl. xxvii.
1922 A, 116, 513, fig. 54.
Matthew, W. D. 1918 H, 568, 569.
1921 A, 5.
1928 B, 957 (Syn. of Plesiadapis).
Ossenkopp, G. J. 1925 A, 475 (Syn. of Plesiadapis).
Simpson, G. G. 1928 A, 7.
Stehlin, H. G. 1916 B, 1388, 1506.
Weber and Abel 1928 A, 740.
Zittel and Schlosser 1923 A, 642, 666.

Nothodectes dubius Matthew.

Matthew, W. D. 1915 F, 482, fig. 52.
1917 C, 831.
Ossenkopp, G. J. 1925 A, 476 (Plesiadapis).
Simpson, G. G. 1927 B, 4.
Lower Eocene (Grey Bull); Wyoming.

Nothodectes gidleyi Matthew.

Matthew, W. D. 1917 C, 823.
Chardin, P. T. 1920 A, 1161.
1922 A, 20, 100.
Gidley, J. W. 1924 B, 47 (This species?).
Gregory, W. K. 1921 A, 70.
1922 A, 119, fig. 54.
Matthew, W. D. 1921 H, 509.
Ossenkopp, G. J. 1925 A, 476 (Plesiadapis).
Reeside, J. B. 1924 A, 47.

Simpson, G. G. 1927 B, 4, fig. 4 (This species?).

Paleocene (Tiffany beds); Colorado.

Nothodectes sp. indet.

Gidley, J. W. 1918 B, 59. Lower Eocene (Wasatch); Colorado.

Reeside, J. B. 1924 A, 46. Lower Eocene (Wasatch); Colorado.

STEHLINIUS Matthew. Type *S. uintensis* Matthew.

Matthew, W. D. 1921 A, 1.

Black, D. 1925 A, table.

Chardin, T. 1922 A, 94, 96.

Weber and Abel 1928 A, 125.

Zittel and Schlosser 1923 A, 643.

Stehlinius uintensis Matthew.

Matthew, W. D. 1921 A, 2, figs. 1, 2.

Chardin, T. 1922 A, 94 (S. uintahensis).

Weber and Abel 1928 A, 124, fig. 75.

Upper Eocene (Uinta); Utah.

TROGOLEMUR Matthew. Type *T. myodes* Matthew.

Matthew, W. D. 1909 D, 546.

Chardin, T. 1922 A, 96.

Matthew, W. D. 1915 F, 478.

1917 C, 833.

Ossenkopp, G. J. 1925 A, 474.

Stehlin, H. G. 1916 B, 1505.

Troxell, E. L. 1923 E, 503.

Zittel and Schlosser 1911 A, 549.

1923 A, 642.

Trogolemur myodes Matthew.

Matthew, W. D. 1909 D, 546, pl. lii, fig. 5.

Ossenkopp, G. J. 1925 A, 474.

Stehlin, H. G. 1916 B, 1387 (T. myoides).

Middle Eocene (Lower Bridger); Wyoming.

IGNACIUS Matthew and Granger. Type *I. frugivorus* Matthew and Granger.

Matthew and Granger 1921 A, 5.

Ossenkopp, G. J. 1925 A, 475.

Weber and Abel 1928 A, 740.

Zittel and Schlosser 1923 A, 642.

This genus is referred with doubt to the Plesiadapidæ.

Ignacius frugivorus Matthew and Granger.

Matthew and Granger 1921 A, 5.

Ossenkopp, G. J. 1925 A, 475.

Reeside, J. B. 1924 A, 47.

Paleocene (Tiffany); Colorado.

MIXODECTIDÆ Cope.

Cope, E. D. 1883 I, 80.

Hay, O. P. 1902 A, 786.

Abel, O. 1908 C, (36) (Oldobotidæ, Mixodectini).

1913 B, 711.

1914 A, 51, 254.

1919 A, 727.

Arldt, T. 1907 A, 237 ("mixodectiden").

1912 A, 704.

Earle, C. 1897 B, 310.

Gidley, J. W. 1923 A, 21.

Gregory, W. K. 1910 A, 331, 465.

1912 C, 194.

1913 A, 117.

Matthew, W. D. 1909 C, 92, 93, 95, 101.

1909 D, 298, 546.

1914 B, 387.

1915 A, 215.

1915 F, 467 (Mixodectidæ, Mixodectinæ).

1915 K, 444.

1917 C, 837.

Matthew, W. D. 1918 H, 566, 568.

1921 D, 212.

Osborn, H. F. 1901 D, 623.

1902 C, 203.

1902 D, 307.

1905 I, 101.

1910 B, 109, 111, 522.

Ossenkopp, G. J. 1925 A, 470, 477.

Schlosser, M. 1898 B, 361 (Anaptomorphidæ, Mixodectidæ).

1905 A, 325 ("mixodectiden").

1907 C, 222 (Oldobotidæ, Mixodectinæ).

1911 A, 70 ("mixodectiden").

Stehlin, H. G. 1916 B, 1320, 1502 ("mixodectiden").

Trouessart, E. L. 1904 A, 290.

Weber, M. 1904 A, 509.

Weber and Abel 1928 A, 124, 295, 718.

Winge, H. 1917 A, 175.

Zittel and Schlosser 1911 A, 370.

1923 A, 448, 665-667.

MIXODECTES Cope. Type *M. pungens* Cope.

Hay, O. P. 1902 A, 786.

Ameghino, F. 1902 B, 11.

1906 A, 284.

Chardin, T. 1922 A, 95, 96.

Earle, C. 1897 A, 689.

Granger, W. 1917 A, 825.

Haug, E. 1911 A, 1528.

Heilprin, A. 1887 A, 403.

Hubrecht, A. A. W. 1908 A, 161.

Lydekker, R. 1903 D, 125.

Matthew, W. D. 1909 C, 101 (Mixodectes, Olbodotes).

1909 D, 546.

1910 E, 702 (Mixodectes, Olbodotes).

1915 F, 451, 467 (Olbodotes a syn.).

1918 H, 568.

1921 A, 5.

1924 E, 749.

Osborn, H. F. 1901 D, 623.
1902 C, 205 (Mixodectes); 203, 204 (Olbodotes, type O. copei Osborn).
1907 G, 89, figs. 43, 104 (Olbodotes); 145 (Mixodectes).
1909 D, 35.
1910 B, 120, 522.
Ossenkopp, G. J. 1925 A, 470.
Palmer, T. S. 1904 A, 428, 851 (Mixodectes); 472, 851 (Olbodotes).
Schlosser, M. 1900 B, 301.
1905 A, 326, 331 (Mixodectes); 331 (Olbodotes).
1908 B, 361.
1910 A, 507 (Olbodotes).
1911 A, 147 (Olbodotes).
Seeley, H. G. 1886 A, 518 (Oligobunis).
Stehlin, H. G. 1916 B, 1503 (Mixodectes); 1319, 1503 (Olbodotes).
Trouessart, E. L. 1904 A, 290.
Weber, M. 1904 A, 508, 511, 762.
Winge, H. 1917 A, 176 (Mixodectes, Olbodotes).
1923 A, 185, 191 (Mixodectes, Olbodotes).
Wortman, J. L. 1903 A, xv, 401, 402 (Mixodectes); 435 (Mixodectes, Olbodotes); xvi, 353 (Mixodectes, Olbodotes); 364 (Mixodectes).
Zittel and Schlosser 1911 A, 370 (Mixodectes, Olbodotes).
1923 A, 449 (Mixodectes, Olbodotes).

Mixodectes copei (Osborn).

Osborn, H. F. 1902 C, 175, 205, fig. 29 (Olbodotes).
Gardner, J. H. 1910 A, 733, fig. 9 (Olbodotes).
Ossenkopp, G. J. 1925 A, 470.
Schlosser, M. 1911 A, 71 (Olbodotes).
Trouessart, E. L. 1904 A, 290 (Olbotes).
Paleocene (Torrejon); New Mexico.

Mixodectes crassiusculus Cope.

Hay, O. P. 1902 A, 786.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Osborn, H. F. 1902 C, 175, 207, fig. 32.
Ossenkopp, G. J. 1925 A, 470.
Reeside, J. B. 1924 A, 41.
Seeley, H. G. 1886 A, 518 (M. crassivultus, Oligobunis).
Trouessart, E. L. 1904 A, 290.
Paleocene (Torrejon); New Mexico.

Mixodectes pungens Cope.

Hay, O. P. 1902 A, 787.
Abel, O. 1913 B, 711, fig. 12.
1914 A, 52, fig. 25.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Osborn, H. F. 1902 C, 175, 204, 206, figs. 28, 30, 31.
Ossenkopp, G. J. 1925 A, 470.
Reeside, J. B. 1924 A, 41.
Trouessart, E. L. 1904 A, 290.
Weber, M. 1904 A, 509, fig. 383.
Weber and Abel 1928 A, 295, fig. 184.
Wortman, J. L. 1903 A, xvi, 364.
Paleocene (Torrejon); New Mexico.

Mixodectes sp. indet.

Douglass, E. 1908 D, 19, pl. ii, figs. 9. 10
Paleocene (Fort Union); Montana.
Gregory, W. K. 1922 A, 117.

INDRODON Cope. Type *I. malaris* Cope.

Hay, O. P. 1902 A, 792.
Ameghino, F. 1906 A, 284.
Beddard, F. E. 1902 A, 552.
Brown, A. E. 1901 A, 123.
Dall, W. H. 1898 A, 347.
Earle, C. 1897 A, 681.
Gregory, W. K. 1922 A, 538.
1927 I, 558.
Loomis, F. B. 1922 A, 62.
Matthew, W. D. 1901 A, 6.
1909 C, 101.
Osborn, H. F. 1902 C, 208, fig. 34.
1907 G, 159, fig. 131.
1909 D, 35.
1910 B, 522.
Palmer, T. S. 1904 A, 350, 851.
Rosenberg, E. 1895 A, 295.
Schlosser, M. 1898 B, 363.
1900 B, 307.
1911 A, 72.
Scott, W. B. 1913 A, 580.
Stehlin, H. G. 1916 B, 1319, 1503.
Zittel and Schlosser 1911 A, 370.
1923 A, 449.

Indrodon malaris Cope.

Hay, O. P. 1902 A, 792.
Beddard, F. E. 1902 A, 552.
Gardner, J. H. 1910 A, 730.
Gregory, W. K. 1922 A, 117, fig. 50.
Matthew, W. D. 1909 C, 92.
1909 D, 512.
1914 B, 385.
Osborn, H. F. 1902 C, 170, 208, fig. 33.
Ossenkopp, G. J. 1925 A, 470.
Reeside, J. B. 1924 A, 41.
Rosenberg, E. 1895 A, 294.
Schlosser, M. 1908 B, 363.
Trouessart, E. L. 1904 A, 291.
Paleocene (Torrejon); New Mexico.

MICROSYOPSIDÆ Osborn.

Osborn, H. F. 1892 in Osborn and Wortman, 1892 A, 101.
Abel, O. 1908 C, (36).
Arldt, T. 1912 A, 704.
Gregory, W. K. 1916 B, 261.
Matthew, W. D. 1906 B, 361 (Microsyopidæ).
1909 C, 93, 95, 100 (Microsyopidæ).
1916 I, 109 (Microsyopidæ).
1917 C, 837 (Microsyopidæ).
1918 H, 566, 568.

Matthew, W. D. 1921 D, 214 (Microsyopidæ).
Osborn, H. F. 1909 D, 46, 52.
1910 B, 127, 623 (Microsyopidæ); 134 ("microsyopsids").
Ossenkopp, G. J. 1925 A, 470, 471.
Schlosser, M. 1905 A, 331.
Schlosser, M. 1907 C, 222 (Microsyopidæ).
1911 A, 62 ("microsyopiden").
Stehlin, H. G. 1912 A, 1286 ("microsyopiden").
1916 B, 1502 ("microsyopiden").
Weber and Abel 1928 A, 125, 718 (Microsyopidæ).
Wortman, J. L. 1903 A, xvi, 347, 352, 364, 368.

CYNODONTOMYS Cope. Type *C. latidens* Cope.

Hay, O. P. 1902 A, 788.
Ameghino, F. 1902 B, 11.
Chardin, T. 1922 A, 24, 96.
Granger, W. 1914 A, 203.
Gregory, W. K. 1917 D, 630.
Haug, E. 1911 A, 1528.
Hubrecht, A. A. W. 1908 A, 161.
Matthew, W. D. 1909 C, 100.
1915 F, 466, 467, 470.
Osborn, H. F. 1901 D, 623.
1902 C, 205, 208.
1910 B, 127, 134, 522.
Ossenkopp, G. J. 1925 A, 471.
Palmer, T. S. 1904 A, 211, 851.
Schlosser, M. 1905 A, 328, 331.
1911 A, 72.
Stehlin, H. G. 1916 B, 1503.
Weber, M. 1904 A, 509.
Wortman, J. L. 1903 A, xv, 401; xvi, 353.
Zittel and Schlosser 1911 A, 370.
1923 A, 449.

Cynodontomys angulatus (Cope).

Hay, O. P. 1902 A, 744 (Chriacus).
Loomis, F. B. 1906 A, 282 (Pelycodus).
Matthew, W. D. 1909 C, 93.
1915 F, 473.
Osborn, H. F. 1902 A, 202 (Pelycodus).
Ossenkopp, G. J. 1925 A, 471 (Syn. of C. latidens).
Reeside, J. B. 1924 A, 46.
Trouessart, E. L. 1904 A, 40 (Anaptomorphus?); 159 (Chriacus).
Lower Eocene (Wasatch); New Mexico.

Cynodontomys angustidens Matthew.

Matthew, W. D. 1915 F, 477, figs. 41, 47, 48.
Ossenkopp, G. J. 1925 A, 471.
Lower Eocene (Wasatch); Wyoming.

Cynodontomys latidens Cope.

Hay, O. P. 1902 A, 788.
Loomis, F. B. 1906 A, 283, 285, fig. 7 (Notharctus palmeri); 284, 285, fig. 8 (Notharctus cingulatus).
Matthew, W. D. 1909 C, 92 (Notharctus cingulatus, N. palmeri); 93 (Cynodontomys latidens).
1915 F, 442, 473, figs. 41, 44-46 (Notharctus cingulatus, N. palmeri, syns.).
Osborn, H. F. 1902 C, 175, 208, 209, fig. 35 (To Microsyops?).
Ossenkopp, G. J. 1925 A, 471.
Trouessart, E. L. 1904 A, 291 (Microsyops, Cynodontomys).
Lower Eocene (Wind River and Wasatch); Wyoming: (San Juan); New Mexico.

Cynodontomys scottianus Cope.

Hay, O. P. 1902 A, 791 (Microsyops).
Matthew, W. D. 1909 C, 93 (Microsyops).
1915 F, 471, figs. 41-43.
Osborn, H. F. 1902 C, 175, 209, fig. 36 (Microsyops).
Ossenkopp, G. J. 1925 A, 471.
Trouessart, E. L. 1904 A, 291 (Microsyops).
Lower Eocene (Wind River); Wyoming.

Cynodontomys sp. indet.

Matthew, W. D. 1909 C, 93. Lower Eocene (Wind River); Wyoming.

MICROSYOPS Leidy. Type *M. gracilis* Leidy.

Hay, O. P. 1902 A, 791 (Microsyops); 793 (Bathrodon); 794 (Mesacodon, Palæacodon).
Ameghino, F. 1906 A, 422.
Chardin, T. 1922 A, 24.
Delafontaine, M. 1875 A, 171 (Microsyops, Palæacodon).
Granger and Gregory 1917 A, 857.
Gregory, W. K. 1921 A, 58.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 348, 403 (Microsyops); 348 (Palæacodon).
Hubrecht, A. A. W. 1908 A, 161.
Matthew, W. D. 1909 C, 100.
1909 D, 548.
1915 F, 451, 466, 467, 468.
1918 H, 568.
1921 A, 5.
Osborn, H. F. 1898 V, 206.
1901 D, 623 (Microcyops).
Osborn, H. F. 1902 C, 177, 205, 209, figs. 4, 38, 39.
1907 G, 157, fig. 127.
1909 D, 49.
1910 B, 130, 134, 161, 522.
1912 G, 236, fig. 3.
Ossenkopp, G. J. 1925 A, 471, 485, 494.
Palmer, T. S. 1904 A, 134, 851 (Bathrodon), 424, 851 (Microsyops); 412, 851 (Mesacodon); 497, 851 (Palæacodon).
Schlosser, M. 1902 J, 132, 230.
1905 A, 326, 328, 331.
1911 A, 72.
Stehlin, H. G. 1916 B, 1503.
Trouessart, E. L. 1904 A, 291.
Wallace, A. R. 1876 A, I, 133 (Microsyops, Mesacodon).
Weber, M. 1904 A, 509 (Microsyops); 763 (Palæacodon).

Wortman, J. L. 1903 A, xv, 401; xvi, 352.
Zittel and Schlosser 1911 A, 370.
1923 A, 449, 569 (Syn. of Haplomylus).

Microsyops annectens (Marsh).

Hay, O. P. 1902 A, 793 (Bathrodon).
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1902 C, 173, 212, 213, fig. 40.
Ossenkopp, G. J. 1925 A, 472.
Schlosser, M. 1905 A, 332.
Wortman, J. L. 1903 A, xvi, 360, fig. 116.
Middle Eocene (Bridger); Wyoming.

Microsyops elegans (Marsh).

Hay, O. P. 1902 A, 791 (M. elegans, M. gracilis); 794 (Mesacodon speciosus).
Ameghino, F. 1906 A, 422, fig. 316.
Matthew, W. D. 1909 C, 95.
1909 D, 298.
1915 F, 468, figs. 38-40.
Osborn, H. F. 1902 C, 173, 212 (M. speciosus); 172, 198 (Notharctus); 172, 210 (M. gracilis).
Ossenkopp, G. J. 1925 A, 471.
Schlosser, M. 1905 A, 331.
Trouessart, E. L. 1904 A, 41 (Notharctus); 291 (M. gracilis, M. speciosus).
Wortman, J. L. 1903 A, xvi, 353-355, figs. 110-112 (Mesacodon speciosus a syn.).
Zittel and Schlosser 1911 A, 370, fig. 54.
1923 A, 449, fig. 571 (M. gracilis).
Middle Eocene (Bridger); Wyoming.

Microsyops schlosseri Wortman.

Wortman, J. L. 1903 A, xvi, 361, fig. 117.
Matthew, W. D. 1909 C, 95.
Ossenkopp, G. J. 1925 A, 472.
Schlosser, M. 1905 A, 332.
Middle Eocene (Bridger); Wyoming.

Microsyops typus (Marsh).

Hay, O. P. 1902 A, 793 (Bathrodon).
Matthew, W. D. 1909 C, 95.
1909 D, 303.
Osborn, H. F. 1902 C, 173, 212.
Ossenkopp, G. J. 1925 A, 472 (M. gracilis).
Schlosser, M. 1905 A, 331 (M. gracilis).
Trouessart, E. L. 1904 A, 291.
Wortman, J. L. 1903 A, xvi, 358, figs. 113, 114 (M. gracilis, not of Leidy).
Zittel and Schlosser 1911 A, 370, fig. 54 (M. gracilis).
Middle Eocene (Bridger); Wyoming.

Microsyops verus (Leidy).

Hay, O. P. 1902 A, 794 (Palæacodon).
Matthew, W. D. 1909 D, 298 (Syn. of M. elegans).
Osborn, H. F. 1902 C, 172, 210.
Ossenkopp, G. J. 1925 A, 471 (Syn. of M. elegans).
Trouessart, E. L. 1904 A, 291.
Middle Eocene (Bridger); Wyoming.

Microsyops sp. indet.

Matthew, W. D. 1909 C, 95. Middle Eocene (Bridger); Wyoming, Colorado.
Sinclair and Granger 1911 A, 91.

Suborder Menotyphla Haeckel.

Haeckel, E. 1866, Gen. Morph.
Broom, R. 1915 A, 347.
Carlsson, A. 1922 A, 231.
Carter, J. T. 1922 A, 601, 603.
Clark and Sonntag 1926 A, 454.
Gill, T. 1886 B, 136, 146 (Dilambdodonta).
Gregory, W. K. 1910 A, 268-285, 465.
1921 A, 70.
1922 A, 116, 152, 279.
Haeckel, E. 1868 A, 484.
Matthew, W. D. 1921 D, 214.
Matthew, W. D. 1928 B, 957, 965, 975.
Matthew and Granger 1925 A, 7.
Osborn, H. F. 1910 B, 522.
Ossenkopp, G. J. 1925 A, 478.
Simpson, G. G. 1928 A, 5.
Todd, T. W. 1922 A, 269.
Weber and Abel 1928 A, 97, 114.
Weber and Burlet 1927 A, xiii.
Winge, H. 1923 A, 183, 184.
Zittel and Schlosser 1911 A, 365.
1923 A, 444.

APHELISCIDÆ Matthew.

Matthew, W. D. 1918 H, 592.
The ordinal position of this family is uncertain.

Apheliscus Cope. Type *D. insidiosus* Cope.

Hay, O. P. 1902 A, 792.
Cope, E. D. 1880 U, 149, 153 (Prototomus).
Matthew, W. D. 1905 B, 71 (Prototomus).
1915 D, 71 (Prototomus).
1918 H, 567, 592.
Palmer, T. S. 1904 A, 111, 901 (Apheliscus); 586, 811 (Prototomus).
Trouessart, E. L. 1904 A, 291.
Wallace, A. R. 1876 A, i, 134 (Prototomus).
Zittel and Schlosser 1923 A, 639 (Prototomus; syn. of Pelycodus).

Apheliscus insidiosus Cope.

Hay, O. P. 1902 A, 792.
Lemoine, V. 1885 C, 207.
Matthew, W. D. 1918 H, 592, 596, figs. 20-24.
Lower Eocene (Grey Bull); New Mexico, Wyoming.

ADAPISORICIDÆ Schlosser.

Schlosser, M. 1887 B, 138.
Abel, O. 1914 A, 51, 54.
1919 A, 727.
Flower and Lydekker 1891 A, 634.
Nicholson and Lydekker 1889 A, 1459 (Adiposoricidæ).
Palmer, T. S. 1904 A, 869.
Simpson, G. G. 1928 A, 5.
Weber, M. 1904 A, 381 (Adapisorex).
Zittel, K. A. 1890 A, 774.
Zittel and Schlosser 1911 A, 369.
1923 A, 447 (Adapisorex).

LEIPSANOLESTES Simpson. Type *L. siegfriedti* Simpson.

Simpson, G. G. 1928 A, 6.

Leipsanolestes siegfriedti Simpson.

Simpson, G. G. 1928 A, 6, figs. 3, 3*a*.
Paleocene (Fort Union); Montana.

TUPAIIDÆ Mivart.

Mivart, St. G. 1868 A, 145.
Beddard, F. E. 1902 A, 511.
Carlsson, A. 1922 A, 227-270.
Carus, V. 1875 A, 89 (Tupajæ).
Clark, W. E. L. 1924 A, 559, figs. 1-6 (Tupaia).
Dobson, G. E. 1883 A, 2 (Tupaioidea).
Doran, A. H. G. 1878 A, 444.
Elliot, D. G. 1921 A, 185 (Tupaia).
Flower and Lydekker 1891 A, 617.
Gill, T. 1872 B, 19 (Tupayidæ).
1875 A, 107, 109.
1886 B, 141.
Gregory, W. K. 1910 A, 269.
1912 C, 194.
1913 A, 117.
1913 C, 247.
1922 A, 547.
1926 B, 415.
Hertz, M. 1925 A, fig. 44 (Tupaia).
Kandern, W. 1910 A (Tupajidæ).
Kingsley, J. S. 1925 A, 182, fig. 194 (Tupaia).
Matthew, W. D. 1909 D, 507.
Ossenkopp, G. J. 1925 A, 478.
Owen, R. 1868 A, 307 ("tupais").
Palmer, T. S. 1904 A, 875.
Roger, O. 1896 A, 25 (Tupajidæ).
Schlosser, M. 1887 B, 89, 114 (Tupajidæ).
Todd, T. W. 1922 A, 269.
Trouessart, E. L. 1904 A, 121.
Weber, M. 1904 A, 365, 376 (Tupajidæ).
Weber and Abel 1928 A, 94, 97, 115, 116, 125.
Woodward, M. F. 1896 A, 558 (Tapaia).
Zittel, K. A. 1893 B, 566 (Tupajidæ).
Zittel and Schlosser 1911 A, 366 (Tupajidæ).
1923 A, 447 (Tupajidæ).

ENTOMOLESTES Matthew. Type *E. grangeri* Matthew.

Matthew, W. D. 1909 D, 541.
Chardin, T. 1922 A, 18, 48.
Gregory, W. K. 1912 C, 194.
1913 A, 117.
1913 C, 249.
Matthew, W. D. 1915 A, 226.
1915 K, 442.
1918 H, 597.
Osborn, H. F. 1910 B, 522.
Ossenkopp, G. J. 1925 A, 478.
Simpson, G. G. 1928 A, 5.
Weber and Abel 1928 A, 125.
Zittel and Schlosser 1911 A, 368.
1923 A, 447.

Entomolestes grangeri Matthew.

Matthew, W. D. 1909 D, 542, pl. 1, fig. 2.
Gregory, W. K. 1910 E, 919.
1911 D, 419.
1912 C, 194.
1913 C, 249.
1922 A, 118, fig. 52.
Ossenkopp, G. J. 1925 A, 478.
Middle Eocene (Bridger); Wyoming.

Entomolestes nitens Matthew.

Matthew, W. D. 1918 H, 597, figs. 25, 26.
Ossenkopp, G. J. 1925 A, 479.
Lower Eocene (Wasatch); Wyoming.

PLAGIOMENIDÆ Matthew.

Matthew, W. D. 1918 H, 599.
A family of uncertain position.

PLAGIOMENE Matthew. Type *P. multicuspis* Matthew.

Matthew, W. D. 1918 H, 601.

Plagiomene multicuspis Matthew.

Matthew, W. D. 1918 H, 601, figs. 27-32.
Lower Eocene (Wasatch); Wyoming.

CORIPHAGUS Douglass. Type *C. montanus* Douglass.

Douglass, E. 1908 D, 17.
Zittel and Schlosser 1923 A, 522.

Coriphagus montanus Douglass.

Douglass, E. 1908 D, 17, pl. ii, figs. 3, 4.
Lull, R. S. 1915 D, 326.
Matthew, W. D. 1914 B, 390.
Paleocene (Fort Union); Montana, Wyoming.

MEGOPTERNA Douglass. Type *M. minuta* Douglass.

Douglass, E. 1908 D, 18.

Megopterna minuta Douglass.

Douglass, E. 1908 D, 18, pl. i, figs. 5, 6.
Lull, R. S. 1915 D, 326.
Matthew, W. D. 1914 B, 390 (Megapterna).
Paleocene (Fort Union); Montana, Wyoming.

Order CHIROPTERA Blumenbach.

Blumenbach, J. F. 1779, Handbuch Naturgeschichte, ed. 1, 58, 74.
Hay, O. P. 1902 A, 741.
Abel, O. 1908 F, (234) ("chiropteren").
1909 D, (222) ("fledermäuse").
1910 B, (186).
1912 F, 302, 665.
1913 B, 711.
1914 A, 54.
1919 A, 729.
1920 A, 420.
1921 A, 274 ("fledermäuse").
Adloff, P. 1910 B, 230.
Ärnbeck-Christie-Linde, A. 1909 A, 572.
Agassiz, L. 1844 C, 255 ("chéiroptères").
Allen, H. 1864 A.
Ameghino, F. 1889 A, 1009.
Anderson, R. J. 1912 D, 252 (Cheiroptera).
Anthony, R. 1910 A, 783 ("chéiroptères").
1912 A ("chéiroptères").
Arldt, T. 1907 D, 645.
1912 A, 686.
Bardeleben, K. 1885 B, 85 ("fledermäuse").
Bardenfleth, K. S. 1913 A, 71.
Bayer, F. 1897 A, 149.
Beddard, F. E. 1902 A, 521.
Behlen, H. 1906 A, 197 ("fledermäuse").
Bertelli, D. 1909 A, 181 ("chirotteri").
Beyer, H. 1908 A, 78, 81 ("fledermäuse").
Bizot, —— 1912 A, 131 ("chéiroptères").
Black, N. 1900 A, 17 (Cheiroptera).
Blainville, H. M. D. 1838 A, 357 ("chéiroptères").
Bluntschli, H. 1912 B, 390 ("chiropteren").
Bolk, L. 1921 B, 169 (Cheiroptera).
Bonaparte, C. L. 1832 A, 284 (Cheiroptera).
1833 A, 1043 ("chéiroptères").
Bonsdorff, E. J. 1871 A, 318.
Branca, W. 1908 B, 14 ("fledermäuse").
1915 A, 50.
Brandt and Woldrich 1887 A, 15.
Broom, R. 1897 B, 252.
1902 D, 550.
1911 C, 319.
1914 F, 296.
1915 A, 162.
Carus, V. 1875 A, 77.
Carus and Engelmann 1861 A, 1300, 1687.
Case, E. C. 1899 B, 182.
Chandler, A. C. 1914 B, 134 (Cheiroptera).
Chapman, H. C. 1904 A, 149.
Claus, C. 1895 A, 349 ("fledermäuse").
Cockerell, Miller and Prinz 1914 A, 349.
Cope, E. D. 1885 BB, 72.
1891 N, 67, 72, 90.
Cuvier, F. 1808 A, 30, 34, pl. iii ("chéiroptères").
Cuvier, G. 1805 A ("chéiroptères").
Dependorf, T. 1907 C, 108 ("chiropteren").
Depéret, C. 1908 A, 306.
Dieterich, K. 1841 A, 73 ("handflügler").
Dobson, G. E. 1882 A, 200.
Döderlein, L. 1900 B, 55 ("chiropteren").
Doran, A. H. G. 1878 A, 445.
Eggeling, H. 1904 A, 98 ("chiropteren").
Eimer, G. H. T. 1901 A, 258 ("fledermäuse").
Elliot, D. G. 1901 A, 396.
Fischer, J. B. 1829 A, 80.
Foote, J. S. 1916 A, 75 ("bats").
Frey, H. 1911 A, 398 ("chiropteren").
Gaupp, E. 1906 B, 850.
1912 B, 219 ("chiropteren").
1913 A, 125 ("chiropteren").
Gegenbaur, C. 1864 C, 188 ("chiroptern").
1879 A, 522 ("chiropteren").
1888 A, 396 ("fledermäuse").
Gervais, P. 1853 B, 37 ("chéiroptères").
Ghigi, A. 1900 B, 99 ("chirotteri").
Giebel, C. G. 1855 A, 8.
1883 A ("chiropteren").
Gill, T. 1886 B, 159.
Gottlieb, H. 1914 A, 186.
Gray, J. E. 1821 A, 299 (Cheiroptera).
Gregory, W. K. 1920 A, 200, 248.
Haeckel, E. 1868 A, 485.
1873 A, 544.
Hensel, R. 1879 A, 545 ("chiropteren").
Hilzheimer, M. 1913 A, 569.
Hoernes, R. 1886 A, 702.
Hogben, L. T. 1919 A, 76.
Humphry, G. M. 1876 A, 668.
Huxley, T. H. 1859 D, 435 (Cheiroptera).
1863 E, 553 (Cheiroptera).
1870 F, 527, 537.
Jaekel, O. 1911 A, 211 (Chiropteri).
Kampfen, P. N. 1905 A, 454.
Kingsley, J. S. 1925 A, 206, 295.
Koch, C. 1863 A, 261-593.
Köstlin, O. 1844 A ("cheiropteren").
Kükenthal, W. 1913 A, 678.
Lataste, F. 1887 A, 266 ("chiroptères").
Leboucq, H. 1884 A, 71 ("chéiroptères").
Leche, W. 1887 A.
1893 B, 121.
1900 A, 991, 1016.
1921 A, 35.
LeDamany, P. 1903 A, 273 ("chéiroptères").
1903 D, 349 ("chauve souris").
1903 E, 365 ("chéiroptères").
1903 G, 321 ("chauve souris").
1906 A, 66 ("chéiroptères").
Leunis and Ludwig 1883 A, 169.
Lobley, J. L. 1908 A, 194, 200 (Cheiroptera).
Lubosch, W. 1911 B, 744 ("chiropteren").
1914 A, 425 ("fledermäuse").
Lull, R. S. 1906 B, 560.
Major, C. J. F. 1880 A, 40.
1899 B, 62.
Martins, C. 1857 A ("chéiroptères").

Martins, C. 1872 A, 308 ("chéiroptères").
Matthew, W. D. 1909 D, 537, 542.
1915 A, 227.
1916 A, 480.
1917 B, 569.
1928 B, 957, 966.
Mead, C. S. 1906 A, 480 (Cheiroptera).
Meckel, J. F. 1825 A ("cheiropteren").
Miller, G. S. 1912 A, 134.
1912 B, 29.
1924 C, 37.
Mitchell, P. C. 1905 A, 492.
Mysberg, W. A. 1917 A, 651.
Nopcsa, F. 1907 A, 226.
Oken, L. 1823 A, 315 ("fledermäuse").
Osborn, H. F. 1902 E, 356, fig. 1 (Cheiroptera).
1905 I, 99 (Cheiroptera).
1905 N, 242 (Cheiroptera).
1907 G, 12, 119, 121, 129 (Cheiroptera).
1909 D, 45, 56 (Cheiroptera).
1910 B, 259, 261, 523 (Cheiroptera).
1925 B, 18 (Cheiroptera).
Owen, R. 1857 E.
1858 A, 23 (Cheiroptera).
1868 A, 872.
Palacký, J. 1902 D, 1.
Pander and Alton 1831 A, 1 ("chiropteren").
Parker and Haswell 1897 A, 518.
Paulli, S. 1900 B, 488, 533.
Pettigrew, J. B. 1872 A, 336 ("bats").
Pictet, F. J. 1853 A, 163 ("chéiroptères").
Plieninger, F. 1906 A, 408 ("chiropteren").
Puccioni, N. 1908 A, 41 (Cheiroptera).
Pycraft, W. P. 1902 B, 315, fig. 2.
Regalia, E. 1880 A, 519 ("chéiroptères").
Rehs, J. 1914 A, 2, 110.
Retterer and Vallois 1912 D, 450 ("chéiroptères").
1912 E, 596 ("chéiroptères").
Retzius, A. 1849 A, 614.
Revilliod, P. 1915 A, 223 ("chiroptères").
1916 A, 156 ("chiroptères").
1917 A.
Reynolds, S. H. 1897 A, 536.
Römer, F. 1907 A, 69 ("chiropteren").
Schlosser, M. 1910 A, 501 ("chiropteren").
Schmidt, O. 1886 A, 291 (Cheiroptera).
Sclater, P. L. 1875 A, 207.
Scott, W. B. 1917 A, 127, 144 ("bats").
Seeley, H. G. 1872 A, 277 ("bats").
1878 A, 225 (Cheiroptera).
Spillman, F. 1925 A, 187 ("chiropteren").
Steinmann, G. 1907 A, 470.
1912 B, 718 ("fledermäuse").
Stromer, E. 1902 B, 554, 560 ("chiropteren").
1912 A, 178, 243.
Taschenberg, O. 1899 A, 4442.
Terra, P. 1911 A, 272.
Thacker, A. G. 1914 A, 283 ("bats").
Thomas, O. 1908 A, 346.
Tims, H. W. M. 1903 A, 145 (Cheiroptera).
Törne, O. 1913 A, 431 ("chiropteren").
Trouessart, E. L. 1878 A, 1 ("chiroptères").
1904 A, 48.
1906 A, 66 ("chauves souris").
Vallois, H. V. 1921 B, 975 ("chéiroptères").
Van Bemmelen, J. F. 1928 A, 283 ("chauves-souris").
Van Beneden, P. J. 1853 A, 340 ("chéiroptères").
Vicq-d'Azyr, F. 1819 A, 1 (Pteropodii).
Vogt, C. 1879 A, 246 ("chauves souris").
Wiman, C. 1925 B, 16.
Wagner, R. 1843 A, 12.
Wallace, A. R. 1876 A, I, 492; II, 567.
1894 A, 435 ("bats").
Walmsley, T. 1918 A, 328 (Cheiroptera).
Weber, M. 1904 A, 382.
Weber and Abel 1928 A, 129, 147.
Weber and Burlet 1927 A.
Weidenreich, F. 1925 A, 39 ("chiropteren").
Wilckens, O. 1911 A, 711 ("fledermäuse").
Wilder, B. 1872 B, 315, 316, 320 (Cheiroptera).
Winge, H. 1923 A, 218.
Woodward, H. 1904 B, 163.
Wortman, J. L. 1902 A, XIII, 45.
1920 A, 15 (Cheiroptera).
Young, G. W. 1915 A, 259.
Zaaijer, T. 1894 A, 339.
Zittel and Schlosser 1911 A, 373.
1923 A, 451.

Suborder ANIMALIVORA Gill.

Gill, T. 1872 B, 16.

Unless otherwise indicated the authors, as quoted, employ the name Microchiroptera.

Abel, O. 1914 A, 54.
Arldt, T. 1907 D, 144.
Beddard, F. E. 1902 A, 526.
Bizot, —— 1912 A, 131 ("microchéiroptères").
Branca, W. 1915 A, 67.
Cope, E. D. 1891 N, 72, 90 (Animalivora).
Flower, W. H. 1883 D, 410.
Gill, T. 1886 B, 161, 163.
Gregory, W. K. 1910 A, 318, 465 (Animalivora).
Miller, G. S. 1907 A, 15, 78.
1912 A, 134.
1912 B, 29.
Reynolds, S. H. 1897 A, 371.
Trouessart, E. L. 1904 A, 67.
Weber and Abel 1928 A, 135, 149 (table), 151.
Weber and Burlet 1927 A, xiv.
Zittel and Schlosser 1911 A, 374 ("microchiropteren").
1923 A, 452.

Superfamily VESPERTILIONOIDÆ, new form.

Weber and Abel 1928 A, 149 (table), 155 (Vespertilionoidea).
Weber and Burlet 1927 A, xiv (Vespertilionoidea).

VESPERTILIONIDÆ Gray.

Gray, J. E. 1821 A, 299.
Hay, O. P. 1902 A, 742.
Ärnbäck-Christie-Linde, A. 1909 A, 572.
Allen, H. 1864 A, 11.

Anderson, R. J. 1912 E, 907.
Arldt, T. 1907 C, 677.
1907 D, 688.
1912 A, 704.
Beddard, F. E. 1902 A, 528.
Bizot, —— 1912 A, 132 ("vesperontilionidés").
Chandler, A. C. 1914 B, 134.
Cope, E. D. 1880 U, 154.
Cuvier, F. 1808 A, 36 ("vespertilions").
Dobson, G. E. 1882 A, 201.
Doran, A. H. G. 1878 A, 448.
Elliot, D. G. 1901 A, 396.
Gervais, P. 1852 A, 7 ("vespertilions").
1859 A, 13 ("vespertilionides").
Gill, T. 1886 B, 165.
Gray, J. E. 1825 B, 338.
Hasse and Schwarck 1870 A, 89, fig. 24 ("fledermäuse").
Hay, O. P. 1923 A, 312.
Leunis and Ludwig 1883 A, 176 (Vespertilionina).
Lobley, J. L. 1908 A, 200, 204.
Miller, G. S. 1907 A, 79, 195, 281.
1912 A, 165.
1924 C, 67.
Palacký, J. 1902 D, 2 ("vespertilioniden").
Palmer, T. S. 1904 A, 776, 806.
Rehs, J. 1914 A, 110.
Revilliod, P. 1916 A, 158.
Seton, E. T. 1909 A, 1147.
Terra, P. 1911 A, 273.
Törne, O. 1913 A, 431 ("vespertilioniden").
Trouessart, E. L. 1878 A, 7.
1904 A, 74.
Wallace, A. R. 1876 A, II, 183.
1894 A, 435.
Weber, M. 1904 A, 400, 403.
Weber and Abel 1928 A, 136, 140, 149 (table), 155.
Winge, H. 1923 A, 236, 256, 273, 274.
Zittel and Schlosser 1923 A, 452.

VESPERTILIONINÆ.

Ärnbäck-Christie-Linde, A. 1909 A, 572.
Arldt, T. 1912 A, 748 (Vespertilioneæ).
Lesson, R. P. 1842, Nouv. Tab. Règne Anim., Mamm., 21 (Vespertilioneæ).
Miller, G. S. 1907 A, 197, 281.
1912 A, 165.
Miller, G. S. 1912 B, 54.
1924 C, 67.
Weber, M. 1904 A, 401, 404.
Winge, H. 1923 A, 236, 274 (Vespertilionini); 256 (Vespertiliones).

MYOTIS Kaup. Type *Vespertilio myotis* Borkh.

Kaup, J. J. 1829, Skizz. Entw.-Gesch. u. natürl. Syst. europ. Thierw., I, 106.
Allen, H. 1864 A, 46 (Vespertilio; not of Linnæus).
1893 A, 193 (Vespertilio).
Dobson, G. E. 1878 A, 284 (Vespertilio, not of Linnæus).
Elliot, D. G. 1901 A, 400.
Gervais, P. 1859 A, 15.
Miller, G. S. 1897 A, 15, 54, 55.
1912 B, 54.
1924 C, 67.
Osborn, H. F. 1909 D, 90.
Palmer, T. S. 1904 A, 442, 807.
Seton, E. T. 1909 A, 1147.
Törne, O. 1913 A, 431 (Vespertilio).
Trouessart, E. L. 1904 A, 90.
Weber and Abel 1928 A, 137, 156, figs. 82-84.

Myotis subulatus Say.

Say, T. 1823, Long's Exped. Rocky Mts., II, 65 (Vespertilio).
Allen, H. 1864 A, 51 (Vespertilio).
Allen, H. 1893 A, 80 (Vespertilio).
Brown, B. 1908 A, 175, pl. XV (Myiotis. This species?).
Elliot, D. G. 1901 A, 405.
Hay, O. P. 1914 A, 32 (This species?).
1923 A, 310, 398.
Mercer, H. C. 1897 A, 58, 60 (Vespertilio gryphus).
Miller, G. S. 1897 A, 75.
1912 B, 58.
1924 C, 72.
Rhoads, S. N. 1903 A, 227.
Seton, E. T. 1909 A, 1163, text-fig. 264, map 64.
Trouessart, E. L. 1904 A, 93.

Recent; North America east of Rocky Mountains: Pleistocene; Pennsylvania, Arkansas, Tennessee.

Myotis sp. indet.

Gidley, J. W. 1913 B, 96. Pleistocene; Maryland.
Hay, O. P. 1923 A, 491. Pleistocene; Maryland, Pennsylvania.

PIPISTRELLUS Kaup. Type *Vespertilio pipistrellus* Schreber.

Hay, O. P. 1902 A, 742.
Ärnbäck-Christie-Linde, A. 1909 A, 573 (Pipistrellus); 574 (Vesperugo).
Allen, J. A. 1892 A, 209, 215, 216, 226 (Vesperugo).
Blainville, H. M. D. 1838 A, 362 (Vespertilio).
Eggeling, H. 1904 A, 98 (Scotophilus).
Gill, T. 1886 B, 166 (Vesperugo).
Leche, W. 1893 B, 122 (Vesperugo).
1900 A, 1019 (Vesperugo).
Miller, G. S. 1907 A, 204.
Miller, G. S. 1912 A, 202.
1924 C, 74.
Palacký, J. 1902 D, 3 (Vesperugo).
Palmer, T. S. 1904 A, 705, 808 (Vesperugo).
Regalia, E. 1880 A, 520 (Vesperugo).
Retterer and Vallois 1912 D, 451 (Vesperugo).
1912 E, 597 ("pipistrelle").
Taschenberg, O. 1899 A, 4703 (Vesperugo).
Törne, O. 1913 A, 432, figs. 1-5 (Vesperugo).
Trouessart, E. L. 1904 A, 80.
Weber and Abel 1928 A, 143.

Zuckerkandl, E. 1908 A, 499, 512, 536 (Vesperugo).

Pipistrellus anemophilus (Cope).

Hay, O. P. 1902 A, 742.
Matthew, W. D. 1917 B, 569 (Vesperugo).
Palacký, J. 1902 D, 2 (Vesperugo anemofilus).
Seeley, H. G. 1886 A, 465 (Vesperugo).
Winge, H. 1923 A, 270 (Vesperugo).
Eocene (Wind River); Wyoming.

EPTESICUS Rafinesque. Type *E. melanops* Rafinesque = *E. fuscus*.

Rafinesque, C. S. 1820, Ann. Nature, 2.
Unless otherwise indicated the authors, as quoted, employ the generic name *Vespertilio*. In many cases it is used in a wide sense; sometimes perhaps it does not include *Eptesicus*.
Hay, O. P. 1902 A, 742.
Ärnbäck-Christie-Linde, A. 1909 A, 573, 574.
Allen, H. 1864 A, 72 (Eptesicus).
Allen, J. A. 1892 A.
Ameghino, F. 1889 A, 1027.
Arldt, T. 1907 D, 120, 154.
Baker, F. C. 1920 A, 208, 214, 397.
Beddard, F. E. 1902 A, 529.
Bertelli, D. 1909 A, 181.
Blainville, H. M. D. 1838 A, 362.
Bronn, H. G. 1848 B, 1365.
1849 A, 725.
Cuvier, G. 1805 A.
Eggeling, H. 1904 A, 98.
Eimer, G. H. T. 1901 A, 22.
Elliot, D. G. 1901 A, 410.
Fischer, E. 1903 A, 710.
Fischer, J. B. 1829 A, 100 (Vespertilio).
Foote, J. S. 1916 A, 80, pl. viii.
Gervais, P. 1852 A, 8.
Gidley, J. W. 1906 F, 94.
Giebel, C. G. 1855 A, 12.
Gill, T. 1886 B, 166.
1907 A, 492.
Grinnell, H. W. 1918 A, 314.
Heilprin, A. 1887 A, 349, 351, 354.
Leboucq, H. 1884 A, 71.
Leche, W. 1900 A, 1018, fig. 102.
Leunis and Ludwig 1883 A, 179.
Leydig, F. 1859 A, 679, 684.
Lubosch, W. 1911 B, 744, 746.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1907 A, 207, 268 (Eptesicus); 209, 281 (Vespertilio).
1912 A, 224 (Eptesicus); 238 (Vespertilio).
1912 B, 61 (Eptesicus).
1924 C, 76.
Nehring, H. 1880 A.
Osborn, H. F. 1909 D, 90.
1910 B, 259, 469, 525.
Owen, R. 1845 B, 425, pl. cxii, figs. 1-4.
1866 B, 387.
Palmer, T. S. 1904 A, 268, 807 (Eptesicus); 705, 808 (Vespertilio).
Rehs, J. 1914 A, 110.
Taschenberg, O. 1899 A, 702 (Vespertilio).
Törne, O. 1913 A, 432 (Vesperugo).
Trouessart, E. L. 1878 A, 7.
1904 A, 77.
Wagner, R. 1843 A.
Weber, M. 1904 A, 404, 406.
Weber and Abel 1928 A, 133, 156, fig. 81.
Winge, H. 1893 A, 36.
1893 B, 84.
1923 A, 237, 274.
Zittel and Schlosser 1923 A, 452, fig. 574 (Vespertilio).

Eptesicus fuscus (Beauvois).

Beauvois, —— 1796, Cat. Peale's Mus., Phila., 14 (Vespertila).
Hay, O. P. 1902 A, 742 (Vespertilio).
Allen, H. 1864 A, 72 (E. melanops).
Elliot, D. G. 1901 A, 410 (Vespertilio).
Grinnell, H. W. 1918 A, 314, pl. xviii, fig. 13; pl. xxiii, fig. 52; pl. xxiv, fig. 60; text-fig. Q.
Hay, O. P. 1923 A, 398 (Adelonycteris).
Mercer, H. C. 1894 A, 98 ("dusky bat").
1897 A, 59, fig. 17 (Adelonycteris).
Miller, G. S. 1897 A, 96, figs. 25, 26 (Vespertilio).
1912 B, 62.
1924 C, 76.
Rhoads, S. N. 1903 A, 227.
Schlosser, M. 1899 O, 151 (Adelonycteris).
Recent; larger part of North America: Pleistocene: Tennessee.

Eptesicus fuscus grandis (B. Brown).

Brown, B. 1908 A, 174, pl. xv (Vespertilio).
Gidley, J. W. 1906 F, 107, pl. iv, fig. 7 (Vespertilio).
1913 B, 96 (Vespertilio grandis).
Hay, O. P. 1914 A, 32.
1923 A, 310.
Seton, E. T. 1909 A, 1177, map 66.
Pleistocene: Arkansas, Maryland.

ANTROZOUS H. Allen. Type *Vespertilio pallidus* Le Conte.

Allen, H. 1862, Proc. Acad. Nat. Sci. Phila., 248.
1864 A, 66.
1893 A, 64.
Dobson, G. E. 1878 A, 170.
Elliot, D. G. 1901 A, 396.
Gill, T. 1886 B, 166.
Grinnell, H. W. 1918 A, 347.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1897 A, 42.
1924 C, 84.
Trouessart, E. L. 1904 A, 74.
Winge, H. 1893 A, 37.
Winge, H. 1923 A, 238, 274.

Antrozous pallidus pacificus Merriam.

Merriam, C. H. 1897, Proc. Biol. Soc. Wash., XI, 180.
Grinnell, H. W. 1918 A, 352 (A. pacificus).
Hay, O. P. 1927 D, 215.
Miller, G. S. 1912 B, 68.
1924 C, 84.
Miller and Stock 1925 A, 10.
Recent; southwestern United States: Pleistocene (Potter Creek cave); California.

Superfamily PHYLLOSTOMOIDÆ, new form.

Weber and Abel 1928 A, 149 (table), 153 (Phyllostomatoidea).

PHYLLOSTOMIDÆ Waterhouse.

Waterhouse, G. R. 1838 (*fide* Palmer).
Cuvier, F. 1808 A, 34 ("phyllostomes").
Gill, T. 1886 B, 172.
Leche, W. 1895 A, 75 (Phyllostoma).
Palmer, T. S. 1904 A, 801 (Phyllostomatidæ).
Weber and Abel 1928 A, 134, 140, 149 (table) 153 (Phyllostomatidæ).

ZANYCTERIS Matthew. Type *Z. paleocenus* Matthew.

Matthew, W. D. 1917 B, 569.
1928 B, 957.
Reeside, J. B. 1924 A, 47.
Winge, H. 1923 A, 270.

Zanycteris paleocenus Matthew.

Matthew, W. D. 1917 B, 569.
1917 C, 831.
Reeside, J. B. 1924 A, 47.
Weber and Abel 1928 A, 159 (Palæonycteris).
Eocene or Paleocene (Ignacio); Colorado.

Order CARNIVORA.

Hay, O. P. 1902 A, 743 (Feræ).
Abel, O. 1901 B, 313 ("raubthiere").
1906 A, 56 ("carnivoren").
1912 D, 599 ("carnivoren").
1912 F, 378, 664.
1913 B, 711.
1914 A, 57.
1919 A, 729.
1920 A, 420.
1921 A, 138 ("carnivoren").
1922 C, 280 ("raubtiere").
Adloff, P. 1903 A, 362 ("carnivoren").
1910 B, 232 ("carnivoren").
Ameghino, F. 1889 A, 1008.
1905 C, 439.
1906 A, 285, 356, 395.
1912 B, 171 ("carnivores").
Anderson, R. J. 1912 D, 252.
Anthony, R. 1905 A, 853 ("carnassiers").
1912 A ("carnassiers").
Arldt, T. 1907 B, 449 ("carnivoren").
1907 D, 643.
Baird, S. F. 1876 A, 305.
Bardeleben, K. 1885 B, 85 ("raubthiere").
1885 C, 151 ("carnivoren").
1889 A, 107 ("carnivoren").
1889 B, 259.
1904 A, 111 ("karnivoren").
Bardenfleth, K. S. 1913 A, 99.
Bateson, W. 1892 A, 104.
Beddard, F. E. 1902 A, 386.
Behlen, H. 1906 A, 198 ("fleischfresser").
1907 A ("carnivoren").
Bertelli, D. 1909 A, 175.
Beyer, H. 1908 A ("raubtiere").
1909 A, 29 ("raubtiere").
Birula, A. A. 1913 A, 219.
Black, N. 1900 A, 19.
Bluntschli, H. 1913 A, 42 ("carnivoren").
Boas, J. E. V. 1909 A, 525 ("raubtiere").
1914 B, 577 ("carnivoren").
Bonaparte, C. L. 1832 A, 285 (Feræ); 286 (Carnivora).
1833 A, 1043.
Branca, W. 1907 A, 10 ("carnivoren").
Brandt and Woldrich 1887 A, 22.
Broom, R. 1897 B, 252.
Broom, R. 1926 A, 263.
Carruccio, A. 1913 B, 177 (Carnivori).
Carus, V. 1875 A, 118.
Carus and Engelmann 1861 A, 1299, 1687.
Case, E. C. 1899 B, 177.
Caush, D. E. 1904 A, 157.
Chandler, A. C. 1914 B, 134.
Clark and Sonntag 1926 A, 461, 481.
Cleland, J. 1863 B, 300.
Cope, E. D. 1875 Y, 444.
1885 BB, 73.
1891 N, 67, 75, 90.
Cuvier, F. 1807 A, 114 ("carnassiers").
1808 D, 27 ("carnassiers").
1825 A, 77 ("carnivores").
Cuvier, G. 1805 A ("carnivores").
Dana, J. D. 1863 C, 333 ("carnivores").
Dependorf, T. 1907 C, 108 ("carnivoren").
Dollo, L. 1889 G, 675 ("carnivores").
Doran, A. H. G. 1878 A, 371, 390.
Eggeling, H. 1904 A, 97 ("carnivoren").
Eimer, G. H. T. 1901 A, 257 ("carnivoren").
Eisler, P. 1895 A, 54 ("karnivoren").
Ellenberger and Baum 1903 A ("fleischfresser").
Elliot, D. G. 1901 A, 293.
Erdl, M. 1843 A, 507 ("raubthiere").
Fawcett, E. 1917 A, 326.
Fleischmann, A. 1904 A, 495 ("carnivoren").
Flower, W. H. 1870 A, 244.
Frassetto, F. 1903 A, 177.
1915 A, 21, 62 ("carnivori").
Frey, H. 1911 A, 410 ("carnivoren").
Fuchs, H. 1906 A, 12 ("karnivoren").
1907 A, 152 ("raubtiere").
1914 A, 31 ("karnivoren").
Ganzer, H. 1908 A, 159.
Gaudry, A. 1891 C, 52.
1906 A, 12 ("carnivores").
Gaupp, E. 1905 D, 1039 ("karnivoren").
1906 B, 850.
1910 D, 92 ("carnivoren").
1911 D, 621 ("carnivoren").
1912 B, 219 ("carnivoren").
1913 A, 112.
Gegenbaur, C. 1888 A, 396 ("carnivoren").
Gervais, P. 1852 A, 103 ("carnivores").
1853 B, 42 ("carnivores").

Gervais, P. 1859 A, 202 ("carnivores").
Ghigi, A. 1900 B, 99 ("carnivori").
Gidley, J. W. 1915 B, 334 ("carnivores").
1923 C, 241 ("carnivores").
Giebel, C. G. 1855 A, 19 (carnivoræ).
1883 A ("raubthiere").
Gottlieb, H. 1914 A, 188.
Grant, M. 1904 B, 191 ("carnivores").
Gray, J. E. 1821 A, 309 (Carnivoræ).
Gregory, W. K. 1910 A, 96, 294, 298, 305.
1916 A, 248 ("carnivores").
1917 D, 626.
1920 A, 238.
Gregory and Camp 1918 A.
Haeckel, E. 1868 A, 469, 480 (Carnaria, Carnivora).
1873 A, 544 (Carnaria).
Hasse and Schwarck 1870 A, 95.
Hay, O. P. 1912 D, 769.
1914 A, 474 (Feræ).
Heilprin, A. 1887 A, 383.
Hensel, R. 1879 A, 530 ("carnivoren").
Hertz, M. 1925 A, 553.
Hilzheimer, M. 1913 A, 565 ("raubtiere").
Hoernes, R. 1886 A, 692.
Hoever, R. 1911 A, 92 ("carnivoren").
Hogben, L. T. 1919 A, 71, 74.
Howes, G. B. 1893 A, 592.
Hrdlička, A. 1920 A, 463 ("carnivores").
1921 A, 166.
Huene, F. 1912 F, 522 ("karnivoren").
Huxley, T. H. 1856 A, 46.
1856 B, 191.
1863 E, 554.
1863 F, 529.
1870 F, 528, 531, 537.
1880 E, 459 ("carnivores").
Ihering, H. 1910 A, 113 ("raubtiere").
Jaeger, G. F. 1842 A, 435 ("fleischfresser").
Jaekel, O. 1911 A, 227 (Carnivori).
Kampfen, P. N. 1905 A, 500.
Kingsley, J. S. 1925 A, 210, 295.
Klein, E. E. 1868 A ("carnivoren").
Köstlin, O. 1844 A ("carnivoren").
Kükenthal, W. 1913 A, 680.
Laloy, L. 1907 A, 587 ("carnivores").
Lankester, E. R. 1908 A, 324.
Lataste, F. 1887 A, 266 ("carnivores").
Lavocat, A. 1885 A, 50 ("carnassiers").
Leboucq, H. 1884 A, 72 ("carnassiers").
Leche, W. 1887 A ("carnivoren").
1902 A, 43.
Le Damany, P. 1903 G, 322 ("carnivores").
1906 B, 164 ("carnivores").
Ledouble, A. F. 1903 A, 646 ("carnassiers").
1906 A, 549, 553, 589 ("carnassiers").
Leunis and Ludwig 1883 A, 181.
Lobley, J. L. 1908 A, 194.
Lönnberg, E. 1916 A, 3.
Loomis, F. B. 1910 C, 293.
Lubosch, W. 1907 A, 618 ("carnivoren").
Lull, R. S. 1904 C, 2.
1917 B, 295, 308, 322, 338, 560.
1918 C, 136 ("carnivores").
Lydekker, R. 1884 A, 178.
1896 D, 1-312.
1899 B, 922.
1904 C, 61.
Lydekker, R. 1907 C, 453.
1910 F, 655.
1914 A, 630.
Mackie, S. J. 1863 D, 332.
Magitot, A. 1875 A, 78 ("carnivores").
Major, C. J. F. 1880 A, 38.
1899 A, 508.
1899 B, 62.
Mantell, G. A. 1844 A, 853.
Martins, C. 1857 A, 81 ("carnivores").
Matthew, W. D. 1904 D, 815.
1906 C, 232.
1907 B, 532 ("carnivores").
1909 C, 123.
1909 D, 299, 313-315, 328-330, 551.
1910 G, 159.
1912 A, 156, 159.
1912 B, 182.
1915 A, 217.
1915 D, 4 (Feræ).
1915 K, 439, 444.
1916 C, 522.
1917 A, 574.
1921 D, 212, 214.
1925 E, 751.
1928 B, 948, 966, 970, 980.
Mead, C. S. 1906 A, 480.
Meckel, J. F. 1825 A ("fleischfresser").
Meunier, S. 1903 A, 776 ("carnivores").
Miller, G. S. 1912 B, 73.
Mitchell, P. C. 1905 A, 493.
Moodie, R. L. 1922 C, 351.
Mysberg, W. A. 1917 A, 655.
Neuville, H. 1915 A, 6 ("carnivores").
O'Harra, C. C. 1910 A, 76.
1920 A, 77.
Oken, L. 1823 A, 284-300 ("raubthiere").
Osborn, H. F. 1899 J, 415.
1902 E, 356, fig. 1
1905 H, 207, figs. 2, 6.
1905 I, 99.
1906 C, 840, 842.
1907 G, 12, 131.
1909 D, 123.
1910 B, 609.
1915 D, 284 ("carnivores").
1917 B, 259, 309.
1925 B, 18.
1925 C, 751, 752.
Owen, R. 1845 E, 116 ("carnivores").
1857 E.
1858 A, 31.
1868 A, 870.
Pander and Alton 1822 A, 7 ("raubthiere").
Paramore, R. H. 1910 A, 1463.
Parker and Haswell 1897 A, 455, 475, 512.
Perna, G. 1906 A, 122 ("raubtiere").
Pictet, F. J. 1853 A, 183 ("carnivores").
Pohl, L. 1911 A, 115 ("carnivoren").
Pohle, H. 1920 A, 48 ("raubtiere").
1924 A, 25.
Puccioni, N. 1908 A, 41 (Carnivori).
Rehs, J. 1914 A, 2, 56.
Retterer, E. 1884 A, 478, 507 ("carnassiers").
Retzius, A. 1849 A, 614 (Feræ).
Reynolds, S. H. 1897 A, 497, 535, fig. 84.
Rutland, J. 1901 A, 21033 (Feræ).
Ryder, J. 1887 B.

Schlosser, M. 1898 B, 360.
1899 I, 350 ("carnivoren").
1900 C, 134 ("raubthiere").
1902 H, 141.
1902 J, 258 ("carnivoren").
1903 I, 176.
1904 B, 446.
1911 A.
Schmidt, O. 1886 A, 259.
Schwalbe, G. 1904 A, 207, 210 ("carnivoren").
Schwarz, E. 1924 A, 419.
Sclater, P. L. 1875 A, 209.
Scott, W. B. 1896 C, 308.
1896 D, 57.
1913 A, 222, 238, 516, 574, 677.
1916 A, 116, 117.
1917 A, 174.
1928 B, 257.
Seeley, H. G. 1876 C, 176.
1878 A, 225.
1886 A, 418.
Serres, M. 1852 A, 145 ("carnassiers").
1852 B, 198 ("carnassiers").
Smith, G. E. 1907 A, 163 ("carnivores").
Spurrell, H. G. F. 1906 A, 123.
Stehlin, H. G. 1916 B, 1537 ("carnivoren").
Steinmann, G. 1907 A, 470.
1909 A ("raubtiere").
1912 A, 46 ("carnivoren").
1912 B, 718 ("raubtiere").
Strecker, C. 1887 A, 316 ("raubthiere").
Stromer, E. 1902 A.
1902 B, 561 ("carnivoren").
1908 B, 157.
1912 A, 179, 243.
Taschenberg, O. 1899 A, 4440.
Terra, P. 1911 A, 277.
Thacker, A. G. 1922 A, 600, 603.
Thomas, O. 1887 A, 311.
Tims, H. W. M. 1902 A, 321.
1905 B, 1785.
Tomes, C. S. 1906 A, 46, 50.
Tornier, G. 1891 A, 143.
Tredgold, A. F. 1897 A, 295.
Trouessart, E. L. 1904 A, 158.
Turner, H. N. 1847 A, 110.
Underhill, B. M. 1910 A, 76.
Vallois, H. V. 1921 B, 975 ("carnivores").
Van Bemmelen, J. F. 1918 A, 575 ("carnivores").
Van den Broeck, A. J. P. 1912 A, 782.
Vicq-d'Azyr, F. 1819 A, 75 (Carnivori).
Wagner, R. 1843 A, 12.
Wallace, A. R. 1876 A, 491; II, 565.
1894 A, 435.
Wallisch, W. 1906 A, 307, 308.
1922 A, 540 ("raubtiere").
Walmsley, T. 1918 A, 327.
Weber, M. 1886 A, 240.
1904 A, 515.
Weber and Abel 1928 A, 299, 316.
Weber and Burlet 1927 A.
Wiegman, F. R. 1838 B, 257 (Feræ).
Wilder, B. G. 1872 B, 319.
1874 A, 302.
Williston, S. W. 1912 E, 261.
Winge, H. 1896 A, 123, 126.
1924 A, 173.
Woodward, A. S. 1898 D, 330.
1910 B, 470.
1923 C, 21.
Woodward, H. 1904 B, 163.
Worthmann, F. 1922 A, 307 ("raubtiere").
Wortman, J. L. 1901 B, XI, 333.
1902 A, XIII, 45, 127.
1903 A, 430.
1906 A, 90.
1920 A, 17.
1921 A, 181.
Wyman, J. 1867 B, 274.
Zaaijer, T. 1894 A, 339.
Zietzschmann, O. 1917 A, 434 ("carnivoren").
Zittel, K. A. 1897 A, 133 ("raubthiere").
Zittel and Schlosser 1911 A, 374.
1923 A, 453, 482.

Suborder CREODONTA Cope.

Cope, E. D. 1875 Y, 446.
Hay, O. P. 1902 A, 743.
Abel, O. 1905 A, 21.
1905 C, 375 ("creodontier").
1905 E, 84 ("creodontier").
1907 E, (249) ("creodontier").
1912 D, 599.
1913 B, 712, 713.
1913 C, 200, 221 (Creodontia).
1914 A, 60.
Ameghino, F. 1889 B, 280.
1893 B, 440, 446 (Creodontia).
1901 A, 351 ("créodontes").
1902 B, 12 ("créodontes").
1905 A, 8.
1905 C, 351, 439.
1906 A, 356, 391.
1906 E, 237.
Andrews, C. W. 1906 A, xxii.
1908 C ("creodonts").
Arldt, T. 1907 D, 648 (Creodontia).
1912 A, 686.
Baird, S. F. 1876 A, 305 (Bunotheriidæ).
Bardenfleth, K. S. 1913 A, 84.
Beddard, F. E. 1902 A, 455.
Behlen, H. 1907 A.
Boas, J. E. V. 1914 B, 577, 579, 582 ("creodonten").
Branca, W. 1907 A, 9.
Carlson, A. 1921 A, 71.
Case, E. C. 1899 B, 178.
Chardin, T. 1922 A, 30 ("créodontes").
Clark and Sonntag 1926 A.
Cope, E. D. 1885 BB, 72.
1885 EE, 610.
1891 N, 72, 75.
Depéret, C. 1904 B, 43 ("créodontes").
1905 C, 703 ("créodontes").
1907 B ("créodontes").
1912 A, 706 ("créodontes").
Dietrich, W. O. 1913 A, 49 ("creodontier").
Drevermann, F. 1913 C, 199.
Fraas, E. 1904 A, 14, 24 ("creodontier").
1905 A. lxiii ("creodontier").

Fraas, E. 1905 B, 386 ("creodontier").
Gadow, H. 1913 A, 127.
Gawrilenko, A. 1924 A, 222 (Creodontia).
Gregory, W. K. 1910 A, 516.
1912 F, 290 ("creodonts").
1920 A, 145, 238.
1921 A, 68 ("creodonts").
Gregory and Simpson 1920 A, 3 ("creodonts").
Heilprin, A. 1887 A, 393.
Hilzheimer, M. 1913 A, 565.
Hoernes, R. 1912 A, 661.
Hogben, L. T. 1919 A, 74.
Huene, F. 1927 D, 146 ("creodontier").
Kampfen, P. N. 1905 A, 500.
Keuchenius, P. E. 1913 A, 448.
Kingsley, J. S. 1925 A, 211.
Koken, E. 1893 B, 486.
Leche, W. 1902 A, 43.
1907 A, 41.
1915 A, 346.
Lemoine, V. 1889 A, 280.
Lönnberg, E. 1910 B, 238.
1911 A, 59.
Lydekker, R. 1899 B, 927 (Creodontia).
1902 B, 373 ("creodonts").
1903 D, 101 (Creodontia).
1904 C, 62 ("creodonts").
1907 C, 451 ("creodonts").
1907 D, 498 ("creodonts").
1910 F, 655 ("creodonts").
Major, C. J. F. 1899 B, 68.
Martin, R. 1906 A, 405.
Matthew, W. D. 1901 A (with groups *Creodonta primitiva*, *C. adaptiva*, and *C. inadaptiva*).
1904 D, 815.
1905 B, 69.
1905 D, 24.
1906 C, 216.
1907 B, 533, 534.
1909 C, 123.
1909 D, 315, 318, 320, 327, 328, 330-332, 335, 414, 501.
1910 G, 152 ("creodonts").
1912 B, 184.
1915 A, 217.
1915 D, 4.
1915 K, 445.
1928 B, 948, 970, 983.
O'Harra, C. C. 1910 A, 77.
1920 A, 78.
Osborn, H. F. 1889 J, 415.
1898 U, 686.
1902 E, 356, fig. 1.
1905 H, 218, fig. 2.
1905 I, 91.
1905 N, 242.
1906 C, 842.
1907 G, 12, 132-139.
1909 D, 123.
Osborn, H. F. 1910 B, 611.
1925 B, 18.
Peterson, O. A. 1912 B, 164 (Creodontia).
Pohle, H. 1924 A, 25.
Pompeckj, J. F. 1922 A, 81 ("creodontier").
Reynolds, S. H. 1897 A, 368, 439, 479, 512, 520.
Scharff, R. F. 1911 A, 373.
Schlosser, M. 1897 B, 20 ("creodonten").
1898 B, 360, 361, 364.
1898 J, 520.
1899 I, 353.
1900 B, 302.
1902 I, 738.
1902 J, 233, 257.
1903 I, 31 ("creodonten").
1904 B, 447.
1904 C, 96 ("creodonten").
1905 A, 329.
1910 A, 501.
1911 A.
1921 A, 107 (Creodontia).
Schmidt, O. 1886 A, 282.
Schwarz, E. 1912 B, 4 ("creodonten").
1924 A, 419, 421.
Scott, W. B. 1896 C, 308.
1913 A, 679.
Seeley, H. G. 1886 A, 417.
Shufeldt, R. W. 1889 D, 24.
Simpson, G. G. 1928 J, 8 ("creodonts").
Sinclair, W. J. 1906 B, 335-337.
Steinmann, G. 1907 A, 470 (Creodontia).
1908 A, 233 ("creodonten").
1912 B, 719, 727 (Creodontia).
Stromer, E. 1902 B, 239, 554, 560 ("creodonten").
1903 B, 39.
1903 D, 99.
1906 A, 213 (Creodontia).
1908 B, 157, 168.
1912 A, 182 (Creodontia).
1916 A, 407.
Thacker, A. G. 1922 A, 600, 603.
Tomes, C. S. 1906 A, 45, 52 ("creodonts").
Trouessart, E. L. 1904 A, 158.
Underhill, B. M. 1910 A, 84.
Weber, M. 1904 A, 538.
Weber and Abel 1928 A, 89, 90, 300, 311, 335, 336, 339.
Winge, H. 1896 A, 126 (Carnivora primitiva).
1924 A, 176, 178 (Carnivora primitiva).
Woodward, A. S. 1897 C, 380.
1898 D, 330, 336.
1923 C, 24.
Wortman, J. L. 1901 B, xi, 334, 337, 338; xii, 281.
Zittel, K. A. 1895 A, 310 (Creodontia).
1897 A, 133.
Zittel and Schlosser 1911 A, 375 (Creodontia).
1923 A, 454, 482, 666, 667 (Creodontia).

Superfamily ARCTOCYONOIDÆ, new name.

Chardin, T. 1922 A, 87 (Procreodi).
Gregory, W. K. 1920 A, 238 (Procreodi).
Matthew, W. D. 1915 D, 5 (Procreodi).
Weber and Abel 1928 A, 337 (Procreodi).

OXYCLÆNIDÆ Scott.

Hay, O. P. 1902 A, 744.
Abel, O. 1919 A, 733.
Arldt, T. 1907 D, 246, 262.
1912 A, 702.

Beddard, F. E. 1902 A, 552 (Chriacidæ).
Behlen, H. 1907 A ("oxyclaeniden").
Chardin, T. 1922 A, 30, 88 ("oxyclénidés").
 1927 A, 18 ("oxyclénidés").
Depéret, C. 1908 A, 111.
 1912 A, 706.
Gregory, W. K. 1920 A, 238.
 1922 A, 105.
Gregory and Simpson 1920 A, 1.
Leche, W. 1915 A, 356.
Matthew, W. D. 1901 A, 5, 7, 19, 21.
 1905 D, 28.
 1909 C, 91, 101.
 1909 D, 327, 338.
 1912 B, 184.
 1914 B, 387.
 1915 D, 5.
 1915 K, 445.
Matthew, W. D. 1918 H, 567.
 1921 D, 212, 214.
 1928 B, 971.
Osborn, H. F. 1909 D, 33, 34, 35.
 1910 B, 111, 526.
Schlosser, M. 1898 B, 361.
 1900 B, 302.
 1901 K, 467 (Chriacidæ).
 1902 D, 301 (Chriacidæ).
 1904 B, 152.
 1921 A, 108, 135 ("oxyclæniden").
Scott, W. B. 1913 A, 554, 561, 562, 574.
Trouessart, E. L. 1904 A, 158.
Weber and Abel 1928 A, 90, 336, 337.
Wortman, J. L. 1901 B, xii, 283, 285.
 1902 A, xiii, 434.
Zittel and Schlosser 1911 A, 376.
 1923 A, 455, 482, 665.

OXYCLÆNUS Cope. Type *Mioclænus cuspidatus* Cope.

Hay, O. P. 1902 A, 744.
Ameghino, F. 1901 A, 351.
 1906 A, 283.
Chardin, T. 1922 A, 48.
Gaudry, A. 1901 B, 524.
Haug, E. 1911 A, 1527.
Matthew, W. D. 1909 C, 101.
 1909 D, 327.
 1918 H, 586.
 1928 B, 954.
Palmer, T. S. 1904 A, 491, 811.
Schlosser, M. 1900 B, 302.
Scott, W. B. 1913 A, 522.
Trouessart, E. L. 1904 A, 158.
Wortman, J. L. 1901 B, xii, 285.
Zittel and Schlosser 1911 A, 376.
 1923 A, 455.

Oxyclænus cuspidatus Cope.

Hay, O. P. 1902 A, 744.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
 1914 B, 384.
Reeside, J. B. 1924 A, 38.
Trouessart, E. L. 1904 A, 158.
 Paleocene (Puerco); New Mexico.

Oxyclænus simplex Cope.

Hay, O. P. 1902 A, 744.
Chardin, T. 1922 A, 88.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
 1914 B, 384.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1900 B, 302 (Chriacus).
 1908 B, 364 (Protochriacus).
Trouessart, E. L. 1904 A, 158.
 Paleocene (Puerco); New Mexico.

LOXOLOPHUS Cope. Type *L. adapinus* Cope = *Chriacus hyattianus* Cope.

Hay, O. P. 1902 A, 745.
Ameghino, F. 1901 A, 351 (Protochriacus).
 1906 A, 283 (Protochriacus).
Beddard, F. E. 1902 A, 553 (Protochriacus).
Haug, E. 1911 A, 1527.
Leche, W. 1915 A, 356 (Protochriacus).
Matthew, W. D. 1909 C, 91 (Loxolophus); 101 (Protochriacus).
 1924 E, 749.
Palmer, T. S. 1904 A, 386, 811 (Loxolophus); 581, 811 (Protochriacus).
Schlosser, M. 1898 B, 361 (Loxolophus); 361, 364 (Protochriacus).
Trouessart, E. L. 1904 A, 159 (Protochriacus).
Wortman, J. L. 1901 B, xii, 285 (Protochriacus).
Zittel and Schlosser 1923 A, 455 (Syn. of Protochriacus).

Loxolophus attenuatus (Osborn and Earle).

Hay, O. P. 1902 A, 745.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
 1914 B, 384.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1908 B, 364 (Protochriacus).
Trouessart, E. L. 1904 A, 159 (Protochriacus).
 Paleocene (Puerco); New Mexico.

Loxolophus hyattianus (Cope).

Hay, O. P. 1902 A, 745.
Douglass, E. 1908 D, 20 (Protochriacus. This species?).
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
 1914 B, 384.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1900 B, 302 (Protochriacus).
Trouessart, E. L. 1904 A, 159 (Protochriacus).
 Paleocene (Puerco); New Mexico.

Loxolophus priscus (Cope).

Hay, O. P. 1902 A, 745.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1900 B, 302 (Protochriacus).
 1909 C, 91.
 1914 B, 384.
Reeside, J. B. 1924 A, 38.

Schlosser, M. 1908 B, 364 (Protochriacus).
Trouessart, E. L. 1904 A, 159 (Protochriacus).
Paleocene (Puerco); New Mexico.

Loxolophus sp. indet.

Lull, R. S. 1915 D, 326 (Protochriacus sp.).
Paleocene (Fort Union); Montana.

CARCINODON Scott. Type *Mioclænus filholianus* Cope.

Hay, O. P. 1902 A, 762.
Matthew, W. D. 1909 C, 101.
Palmer, T. S. 1904 A, 159, 812.
Schlosser, M. 1900 B, 303.
Zittel and Schlosser 1923 A, 455.

Carcinodon filholianus (Cope).

Hay, O. P. 1902 A, 762.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Osborn, H. F. 1902 C, 171.
Reeside, J. B. 1924 A, 38.
Trouessart, E. L. 1904 A, 43.
Paleocene (Puerco); New Mexico.

PARADOXODON Scott. Type *Chriacus rütimeyeranus* Cope.

Hay, O. P. 1902 A, 762.
Matthew, W. D. 1909 C, 101.

Paradoxodon rütimeyeranus (Cope).

Hay, O. P. 1902 A, 762.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

CHRIACUS Cope. Type *Pelycodus pelvidens* Cope.

Hay, O. P. 1902 A, 744.
Ameghino, F. 1901 A, 351.
1906 A, 283.
Beddard, F. E. 1902 A, 552.
Chardin, T. 1922 A, 48, 100.
Dall, W. H. 1898 A, 347.
Depéret, C. 1908 A, 111.
1912 A, 706.
Granger, W. 1917 A, 829.
Haug, E. 1911 A, 1528.
Leche, W. 1915 A, 356.
Matthew, W. D. 1901 A, 5, 6.
1909 C, 101.
1909 D, 327.
1915 D, 4, 5.
1915 K, 420 (Pelycodus).
1918 H, 586.
1924 E, 749.
1928 B, 954.
Osborn, H. F. 1907 G, 132, figs. 84, 200.
1910 B, 111, 526.
Palmer, T. S. 1904 A, 187, 810.
Schlosser, M. 1898 B, 361, 364.
1900 B, 302.
1901 K, 468.
1902 D, 301.
Wortman, J. L. 1901 B, xii, 285.
Zittel and Schlosser 1923 A, 455.

Chriacus baldwini Cope.

Hay, O. P. 1902 A, 745.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1900 B, 302.
Trouessart, E. L. 1904 A, 159.
Paleocene (Torrejon); New Mexico.

Chriacus gallinæ Matthew.

Matthew, W. D. 1915 D, 6, figs. 1, 2.
Gregory, W. K. 1920 A, 238.
Lower Eocene (Wasatch); New Mexico.

Chriacus pelvidens Cope.

Hay, O. P. 1902 A, 745.
Gardner, J. H. 1910 A, 729, fig. 9.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1900 B, 302.
Trouessart, E. L. 1904 A, 159.
Paleocene (Torrejon); New Mexico.

Chriacus schlosserianus Cope.

Hay, O. P. 1902 A, 745.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1900 B, 302.
Trouessart, E. L. 1904 A, 158 (Epichriacus).
Paleocene (Torrejon); New Mexico.

Chriacus stenops Cope.

Hay, O. P. 1902 A, 745.
Paleocene (Torrejon); New Mexico.

Chriacus truncatus Cope.

Hay, O. P. 1902 A, 745.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Trouessart, E. L. 1904 A, 158.
Paleocene (Torrejon); New Mexico.

Chriacus sp. indet.

Douglass, E. 1908 D, 20 (This genus?).
Granger and Simpson 1928 A, 1 (Pelycodus).
Wasatch (Sand Coulee); Wyoming: Paleocene (Fort Union); Montana.

TRICENTES Cope. Type *T. crassicollidens* Cope.

Hay, O. P. 1902 A, 746.
Ameghino, F. 1901 A, 351.
1906 A, 283.
Granger, W. 1917 A.
Gregory, W. K. 1916 A, 244, pls. i, j.
1922 A, 159, pl. v.
Haug, E. 1911 A, 1528.
Leche, W. 1915 A, 356.
Matthew, W. D. 1905 D, 28, fig. 9.
1909 C, 101.
1909 D, 327.
1918 H, 567.
1928 B, 955, fig. 5.
Osborn, H. F. 1907 G, 132, figs. 84, 200.
1910 B, 111, 526.
Palmer, T. S. 1904 A, 688, 811.
Schlosser, M. 1898 B, 361, 364.
1900 B, 302.
Trouessart, E. L. 1904 A, 160.
Weber, M. 1904 A, 693 (Euprotogonia).
Wortman, J. L. 1901 B, XII, 285.
Zittel and Schlosser 1911 A, 376, fig. 539.
1923 A, 455.

Tricentes crassicollidens Cope.

Hay, O. P. 1902 A, 746.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Trouessart, E. L. 1904 A, 160.
Paleocene (Torrejon); New Mexico.

Tricentes subtrigonus Cope.

Hay, O. P. 1902 A, 746.
Gardner, J. H. 1910 A, 729, fig. 9.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Trouessart, E. L. 1904 A, 160.
Zittel and Schlosser 1911 A, 376, fig. 539.
1923 A, 455, fig. 576.
Paleocene (Torrejon); New Mexico.

Tricentes sp. indet.

Douglass, E. 1908 D, 20, pl. ii, figs. 5-8 (This
Paleocene (Fort Union); Montana.

THRYPTACODON Matthew. Type *T. antiquus* Matthew.

Matthew, W. D. 1915 D, 4, 7.
Chardin, T. 1922 A, 48.
Gregory, W. K. 1921 A, 234.
Zittel and Schlosser 1923 A, 455.

Thryptacodon antiquus Matthew.

Matthew, W. D. 1915 D, 8, figs. 4-6.
Lower Eocene (Wasatch); Wyoming.

Thryptacodon olseni Matthew.

Matthew, W. D. 1915 D, 7, 9, figs. 3, 7-9.
Lower Eocene (Wasatch); Wyoming.

Thryptacodon pseudarctos Simpson.

Simpson, G. G. 1928 A, 10, fig. 6.
Paleocene (Fort Union); Montana.

DELTATHERIUM Cope. Type *D. fundaminis* Cope.

Hay, O. P. 1902 A, 751.
Bardenfleth, K. S. 1913 A, 101.
Granger, W. 1917 A.
Gregory, W. K. 1920 A, 146, fig. 75.
1922 A, 100.
Gregory and Noble 1924 A, 455.
Matthew, W. D. 1901 A, 6.
1906 C, 216, text-fig. 6.
1909 C, 101.
1909 D, 327, 464.
1918 H, 586.
1924 E, 749.
1928 B, 954.
Osborn, H. F. 1907 G, 133, figs. 85, 96, 196, 200.
1910 B, 111, 526.
Palmer, T. S. 1904 A, 221, 810.
Schlosser, M. 1898 J, 522.
Scott, W. B. 1913 A, 554.
Trouessart, E. L. 1904 A, 159.
Weber and Abel 1928 A, 123.
Winge, H. 1924 A, 216, 221, 242, 246.
Wood, H. E. 1927 A, 297.
Wortman, J. L. 1901 A.
1901 B, XII, 285.
Zittel and Schlosser 1923 A, 455.

Deltatherium fundaminis Cope.

Hay, O. P. 1902 A, 751.
Abel, O. 1914 A, 60, fig. 30.
Cope, E. D. 1891 N, 74, fig. 46.
Gardner, J. H. 1910 A, 729.
Granger, W. 1917 A, 823.
Gregory, W. K. 1920 A, 146, fig. 75.
Leche, W. 1915 A, 356.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Trouessart, E. L. 1904 A, 159.
Paleocene (Torrejon); New Mexico.

Deltatherium? interruptum Cope.

Hay, O. P. 1902 A, 751.
Trouessart, E. L. 1904 A, 159.
Paleocene (Puerco); New Mexico.

Deltatherium sp. indet.

Douglass, E. 1908 D, 21, pl. ii, figs. 1, 2 (This genus?). Paleocene (Fort Union); Montana.

PROTOGONODON Scott. Type *Mioclænus pentacus* Cope.

Hay, O. P. 1902 A, 603.
Bensley, B. A. 1901 C, 252.
Granger, W. 1915 A, 329.
Granger, W. 1917 A.
Haug, E. 1911 A, 1527.
Matthew, W. D. 1909 C, 102.

Matthew, W. D. 1928 B, 754.
Osborn, H. F. 1907 G, 169, figs. 136, 148, 201.
Palmer, T. S. 1904 A, 582, 933.
Schlosser, M. 1898 B, 370.
1900 B, 305, 306.
Scott, W. B. 1913 A, 457.
Weber and Abel 1928 A, 629.
Zittel and Schlosser 1911 A, 439.
1923 A, 523.
A genus of uncertain relationships.

Protogonodon pentacus (Cope).

Hay, O. P. 1902 A, 603.
Gardner, J. H. 1910 A, 730 (This genus?).
Matthew, W. D. 1909 C, 92 (This genus?).
1914 B, 384.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 371.
1921 A, 119.
Paleocene (Puerco); New Mexico.

Protogonodon stenognathus Matthew.

Hay, O. P. 1902 A, 603.
Gardner, J. H. 1910 A, 730 (This genus?).
Matthew, W. D. 1909 C, 92 (This genus?).
Schlosser, M. 1900 B, 305.
Paleocene (Puerco); New Mexico.

MIXOCLÆNUS Matthew and Granger. Type *M. encinensis* Matthew and Granger.

Matthew and Granger 1921 A, 7.

Mixoclænus encinensis Matthew and Granger.

Matthew and Granger 1921 A, 7.
Paleocene (Tiffany); Colorado.

ELPIDOPHORUS Simpson. Type *E. elegans* Simpson.

Simpson, G. G. 1927 B, 5.
This genus is referred to the Oxyclænidæ with doubt.

Elpidophorus elegans Simpson.

Simpson, G. G. 1927 B, 5, figs. 5, 6.
Paleocene? (Paskapoo); Alberta.

ARCTOCYONIDÆ.

Hay, O. P. 1902 A, 746.
Abel, O. 1913 B, 714, 729.
1914 A, 68.
Ameghino, F. 1889 A, 894.
Arldt, T. 1907 D, 639.
1912 A, 702.
1912 D, 600 ("arctocyoniden").
Bardenfleth, K. S. 1913 A, 84.
Behlen, H. 1907 A, 274, 275 ("arctocyoniden").
Chardin, T. 1922 A, 30 ("arctocyonidés").
1905 C, 703 ("arctocyonidés").
Depéret, C. 1908 A, 111.
Gregory, W. K. 1920 A, 238.
Hilzheimer, M. 1913 A, 566.
Matthew, W. D. 1901 A, 1, 5, 7, 12, 17.
1902 C, 284.
1905 D, 28.
1906 B, 357.
1909 C, 91, 93, 100.
1909 D, 321, 329, 330, 395, 405.
Matthew. W. D. 1914 B, 387.
1915 K, 445.
1921 D, 212, 214.
1928 B, 962, 971, 974, fig. 13.
Osborn, H. F. 1909 D, 122.
1910 B, 111, 126, 132, 133, 138, 526.
Schlosser, M. 1898 B, 361, 364.
1900 B, 303.
1902 J, 150 ("arctocyoniden").
1904 B, 452.
1921 A, 107 ("arctocyoniden").
Scott, W. B. 1913 A, 285, 554, 561, 575.
Trouessart, E. L. 1904 A, 160.
Weber and Abel 1928 A, 336, 337.
Winge, H. 1896 A, 126.
1924 A, 177, 182, 242 (Arctocynidæ).
Wortman, J. L. 1901 B, XI, 338; XII, 283, 285.
Zittel and Schlosser 1911 A, 382.
1923 A, 456, 482, 665.

ARCTOCYON Blainville. Type *A. primævus* Blainville.

Hay, O. P. 1902 A, 746.
Abel, O. 1914 A, 62.
Ameghino, F. 1905 C, 404.
Bronn, H. G. 1848 A, 102.
1849 A, 721.
Chardin, T. 1922 A, 25, pls. vii, viii; text-figs. 12, 14.
Cope, E. D. 1880 U, 149.
Depéret, C. 1912 A, 706.
Gaudry, A. 1901 A, 504.
1901 B, 95, fig. 2, 524.
Gervais, P. 1859 A, 220.
Gregory, W. K. 1910 A, 310, 437.
Huxley, T. H. 1880 D, 450.
Lemoine, V. 1889 A, 235.
Lockwood, S. 1884 A, 407.
Mackie, S. J. 1863 D, 335.
Matthew, W. D. 1901 A, 13.
1909 D, 327.
1915 K, 415.
1928 B, 962.
Osborn, H. F. 1907 G, 133.
1910 B, 103, 104, 173, 526, fig. 71.
Palmer, T. S. 1904 A, 117, 809.
Pictet, F. J. 1853 A, 746.
Schlosser, M. 1898 B, 364.
1921 A, 107, 112, 133.
Schmidt, O. 1886 A, 282.
Seeley, H. G. 1878 A, 222.
Stromer, E. 1902 B, 554, 561.
Weber and Abel 1928 A, XXI, 337.
Winge, H. 1924 A, 177, 182, 242.

Wortman, J. L. 1901 B, XII, 285.
1903 A, XV, 431.
Zittel and Schlosser 1911 A, 382.
1923 A, 456, figs. 577, 578.

CLÆNODON Scott. Type *Mioclænus ferox* Cope.

Hay, O. P. 1902 A, 747.
Abel, O. 1913 B, 714.
Ameghino, F. 1901 A, 351.
1906 A, 283.
Chardin, T. 1922 A, 29, 48, fig. 14.
Clark and Sonntag 1926 A, 460, 479.
Depéret, C. 1908 A, 111.
1912 A, 706.
Gaudry, A. 1901 A, 504.
1901 B, 98, 524.
Gidley, J. W. 1915 B, 334.
1919 A, 274, 278.
1919 B, 541, 544.
Granger, W. 1917 A, 824.
Gregory, W. K. 1910 A, 446, 455.
1921 A, 77.
Haug, E. 1911 A, 1527.
Matthew, W. D. 1901 A, 12.
1904 D, 814.
1909 C, 100.
1909 D, 337, 405.
1924 E, 749.
1928 B, 954.
Osborn, H. F. 1907 G, 199, fig. 200.
1910 B, 111, 527.
1912 G, 233, figs. 1, 3.
Palmer. T. S. 1904 A, 191, 809.
Schlosser, M. 1898 B, 361, 364.
1900 B, 303.
1921 A, 115.
Scott, W. B. 1913 A, 561.
Trouessart, E. L. 1904 A, 161.
Weber and Abel 1928 A, 337.
Winge, H. 1924 A, 177, 182, 242, 246.
Wortman, J. L. 1901 B, XI, 338, XII, 238, 284, 285.
Zittel and Schlosser 1911 A, 382.
1923 A, 456.

Clænodon corrugatus (Cope).

Hay, O. P. 1902 A, 747.
Chardin, T. 1922 A, 26, fig. 11.
Gardner, J. H. 1910 A, 729.
Gidley, J. W. 1919 B, 541, pl. xxviii, fig. 2; text-figs. 1-4.
Matthew, W. D. 1901 A, 14, fig. 6.
1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Trouessart, E. L. 1904 A, 161.
Paleocene (Torrejon); New Mexico.

Clænodon ferox (Cope).

Hay, O. P. 1902 A, 747.
Ameghino, F. 1905 C, 350, 403, fig. 49.
Gardner, J. H. 1910 A, 729.
Gidley, J. W. 1919 B, 541, 544.
Lull, R. S. 1915 D, 326.
Matthew, W. D. 1901 A, 12, 15, fig. 7.
1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1898 B, 364.
1921 A, 115.
Stanton, T. W. 1909 A, 264.
Trouessart, E. L. 1904 A, 161.
Wortman, J. L. 1901 B, XII, 283.
Paleocene (Torrejon); New Mexico: (Fort Union); Montana.

Clænodon protogonioides (Cope).

Hay, O. P. 1902 A, 747.
Gardner, J. H. 1910 A, 729 (This species?).
Gidley, J. W. 1919 B, 541.
Matthew, W. D. 1901 A, 13.
1909 C, 91.
Osborn, H. F. 1909 D, 34.
Reeside, J. B. 1924 A, 38, 41 (This genus and species?).
Schlosser, M. 1921 A, 119.
Trouessart, E. L. 1904 A, 161.
Paleocene (Puerco, Torrejon); New Mexico.

Clænodon sp. indet.

Bowen, C. F. 1918 A, 231. (This genus?). Eocene (Wasatch or Fort Union); Wyoming.

ANACODON Cope. Type *A. ursidens* Cope.

Hay, O. P. 1902 A, 747.
Chardin, T. 1922 A, 28.
Gaudry, A. 1901 B, 98.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1901 A, 13, 17.
1909 C, 100.
1909 D, 327.
1915 D, 13.
Osborn, H. F. 1907 G, 133, fig. 86.
1909 D, 38, 45.
1910 B, 126, 527.
Palmer, T. S. 1904 A, 99, 809.
Schlosser, M. 1921 A, 115.
Scott, W. B. 1913 A, 277, 561.
Winge, H. 1924 A, 177, 182.
Wortman, J. L. 1901 B, XII, 285.
1903 A, XV, 431.
Zittel and Schlosser 1911 A, 380.
1923 A, 456.

Anacodon cultridens Matthew.

Matthew, W. D. 1915 D, 16, fig. 11.
Lower Eocene (Wasatch); Wyoming.

Anacodon ursidens Cope.

Hay, O. P. 1902 A, 747.
Abel, O. 1914 A, 69, fig. 37.
1919 A, 738, fig. 550.
Loomis, F. B. 1907 B, 356.
Matthew, W. D. 1909 C, 93.
1915 D, 13, 14, fig. 10.
Schlosser, M. 1921 A, 115.
Lower Eocene (Wasatch); Wyoming.

NEOCLÆNODON Gidley. Type *N. montanensis* Gidley.

Gidley, J. W. 1919 B, 547.
Zittel and Schlosser 1923 A, 456.
Paleocene (Fort Union); Montana.

Neoclænodon latidens Gidley.

Gidley, J. W. 1919 B, 554, fig. 10.
Paleocene (Fort Union); Montana.

Neoclænodon montanensis Gidley.

Gidley, J. W. 1919 B, 547, pl. xxviii, fig. 1; text-figs. 5-8.
Paleocene (Fort Union); Montana.

Neoclænodon silberlingi Gidley.

Gidley, J. W. 1919 B, 552, fig. 9.
Paleocene (Fort Union); Montana.

Superfamily MESONYCHOIDÆ, new form.

Abel, O. 1913 B, 713, 714 (Acreodi).
1914 A, 63, 64 (Acreodi).
1919 A, 733 (Acreodi).
1922 C, 280 (Acreodi).
Chardin, T. 1922 A, 87 (Acreodi).
Gawrilenko, A. 1924 A, 222 (Acreodi).
Gregory, W. K. 1920 A, 239 (Acreodi).
Matthew, W. D. 1909 D, 327, 330 (Acreodi).
1915 D, 5 (Acreodi).
Osborn, H. F. 1910 B, 527 (Acreodi, Mesonychoidea).
Weber and Abel 1928 A, 338, 342 (Acreodi).
Zittel and Schlosser 1911 A, 376 (Acreodi).
1923 A, 455 (Acreodi).

TRIISODONTIDÆ Scott.

Hay, O. P. 1902 A, 747.
Abel, O. 1914 A, 64.
Arldt, T. 1907 D, 246, 262.
Gregory, W. K. 1920 A, 239.
Matthew, W. D. 1901 A, 5, 6 (Subfam. of Mesonychidæ).
1909 C, 91, 101.
1909 D, 488 (Triisodontinæ); 330 (Triisodontidæ).
1912 B, 184.
1915 K, 445.
Osborn, H. F. 1909 D, 33, 34, 90 (Triisodontinæ).
Palmer, T. S. 1904 A, 775, 811.
Schlosser, M. 1898 B, 361, 365.
1900 B, 302.
1903 B, 148 ("triisodontiden").
Trouessart, E. L. 1904 A, 161 (Triisodontinæ).
Wortman, J. L. 1901 B, XII, 286 (Subfamily).
Zittel and Schlosser 1911 A, 377 (Triisodontinæ).
1923 A, 457, 665 (Triisodontinæ).

TRIISODON Cope. Type *T. quivirensis* Cope.

Hay, O. P. 1902 A, 747.
Abel, O. 1914 A, 62.
Ameghino, F. 1901 A, 351.
1906 A, 283 (Trisodon).
Gaudry, A. 1901 B, 525.
Gregory, W. K. 1910 A, 188, 311.
Haug, E. 1911 A, 1527.
Matthew, W. D. 1909 C, 101.
1909 D, 327.
1924 E, 749.
Osborn, H. F. 1907 G, 132, figs. 84, 94.
1909 D, 35.
Palmer, T. S. 1904 A, 692, 811.
Schlosser, M. 1898 B, 361.
1900 B, 302.
1903 B, 148.
1921 A, 120.
Scott, W. B. 1913 A, 561.
Seeley, H. G. 1886 A, 418.
Trouessart, E. L. 1904 A, 161.
Winge, H. 1924 A, 177, 182.
Wortman, J. L. 1901 B, XII, 285.
Zittel and Schlosser 1923 A, 457, fig. 525.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1900 B, 302 (Goniacodon).
Trouessart, E. L. 1904 A, 162 (T. gaudryanus).
Paleocene (Puerco); New Mexico.

Triisodon gaudrianus (Cope).

Hay, O. P. 1902 A, 748.
Gardner, J. H. 1910 A, 729 (T. guadrianus).
Matthew, W. D. 1909 C, 91.
1914 B, 384.

Triisodon heilprinianus Cope.

Hay, O. P. 1902 A, 748, in part.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1901 A, 30, figs. 10-12.
1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 365 (T. heilprinianus, T. biculminatus).
1900 B, 302.
1921 A, 119.
Trouessart, E. L. 1904 A, 162.
Paleocene (Puerco); New Mexico.

Triisodon quivirensis Cope.

Hay, O. P. 1902 A, 748.
Gardner, J. H. 1910 A, 729.
Leche, W. 1915 A, 351.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 38.
Trouessart, E. L. 1904 A, 161.
Paleocene (Puerco); New Mexico.

GONIACODON Cope. Type *G. levisanus* Cope.

Hay, O. P. 1902 A, 748.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 101.
1909 D, 327.

Osborn, H. F. 1910 B, 527.
Palmer, T. S. 1904 A, 298, 811.
Schlosser, M. 1898 B, 361.
1900 B, 302.
1903 B, 148.
Wortman, J. L. 1901 B, xii, 285.

Goniacodon levisanus (Cope).

Hay, O. P. 1902 A, 748.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Paleocene (Torrejon); New Mexico.

MICROCLÆNODON Scott. Type *Triisodon assurgens* Cope.

Hay, O. P. 1902 A, 748.
Matthew, W. D. 1909 C, 101.
1909 D, 327.
Palmer, T. S. 1904 A, 421, 811.
Schlosser, M. 1898 B, 361.
Trouessart, E. L. 1904 A, 162.

Microclænodon assurgens (Cope).

Hay, O. P. 1902 A, 748.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Paleocene (Torrejon); New Mexico.

SARCOTHRAUSTES Cope. Type *S. antiquus* Cope.

Hay, O. P. 1902 A, 748.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 101.
1909 D, 327, 403.
1928 B, 974, fig. 13.
Osborn, H. F. 1910 B, 111, 527.
Palmer, T. S. 1904 A, 618, 811.
Schlosser, M. 1898 B, 361, 365.
1900 B, 303.
1903 B, 148.
Trouessart, E. L. 1904 A, 162.
Winge, H. 1904 A, 177, 182.
Wortman, J. L. 1901 B, xii, 285.

Sarcothraustes antiquus Cope.

Hay, O. P. 1902 A, 748.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1914 B, 384.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1900 B, 303.
Trouessart, E. L. 1904 A, 162.
Paleocene (Torrejon); New Mexico.

EOCONODON Matthew and Granger. Type *Sarcothraustes coryphœus* Cope.

Matthew and Granger 1921 A, 6.
Matthew, W. D. 1928 B, 974, fig. 13.

Eoconodon coryphæus (Cope).

Hay, O. P. 1902 A, 748 (Triissodon heilprinianus, in part).
Matthew and Granger 1921 A, 6.
Schlosser, M. 1898 B, 365 (Sarcothraustes).
Paleocene (Torrejon); New Mexico.

MESONYCHIDÆ Cope.

Cope, E. D. 1876 A, 3.
Hay, O. P. 1902 A, 749.
Abel, O. 1913 B, 713 ("mesonychiden").
1914 A, 63, 149.
1919 A, 733.
1922 C, 284 ("mesonychiden").
Ameghino, F. 1905 C, 440.
Arldt, T. 1912 A, 702.
Chardin, T. 1922 A, 18, 30, 57 ("mesonychidés").
1927 A, 19 ("mesonychidés").
Depéret, C. 1905 C, 703 ("mesonychidés").
1908 A, 111.
Gregory, W. K. 1910 A, 300, 306, 405.
1920 A, 148, 208.
Howes, G. B. 1902 A, 523.
Matthew, W. D. 1901 A, 1, 5, 7.
1905 B, 70.
1905 D, 35.
1909 C, 91, 93, 96, 98, 101.
1909 D, 300, 324, 327, 329, 330, 485, 487-489, 499, 501 (Mesonychidæ); 488 (Mesonychinæ).
1912 B, 184.
1913 A, 312.
1914 B, 387.
1915 D, 84.
1915 K, 445.
1917 A, 573.
1921 D, 212, 214.
1928 B, 962, 971, 974, fig. 13.
Matthew and Granger 1925 D, 1, 6.
Osborn, H. F. 1909 D, 130.
1910 B, 623.
Palmer, T. S. 1904 A, 753, 810.
Schlosser, M. 1898 B, 361, 365.
1900 B, 303.
1903 B, 148 ("mesonychinen").
1904 B, 452.
1921 A, 110.
Scott, W. B. 1913 A, 685.
Tomes, C. S. 1906 A, 45.
Trouessart, E. L. 1904 A, 161 (Mesonychidæ); 162 (Mesonychinæ).
Weber and Abel 1928 A, 338.
Winge, H. 1924 A, 177, 178, 182 (Mesonychini).
Wortman, J. L. 1901 B, xii, 281, 283, 285, 286 (Mesonychinæ).
1902 A, xiv, 23.
Zittel and Schlosser 1911 A, 376, 377 (Mesonychidæ, Mesonychinæ).
1923 A, 456, 482, 665-668 (Mesonvchidæ. Mesonychinæ).

DISSACUS Cope. Type *D. navajovius* Cope.

Hay, O. P. 1902 A, 749.
Ameghino, F. 1904 A, 21.
1905 C, 440.
1906 A, 284.
Chardin, T. 1922 A, 18, 48, 56, 80, fig. 9.
Clark and Sonntag 1926 A, 459, 463.
Depéret, C. 1908 A, 112.
1912 A, 706.
Dollo and Chardin 1924 A, 15.
Frick, C. 1926 A, 40.
Gaudry, A. 1901 A, 504.
Gidley, J. W. 1919 A, 274.
Gregory, W. K. 1921 A, 77, 234.
Haug, E. 1911 A, 1528.
Lemoine, V. 1885 C, 204.
Matthew, W. D. 1904 D, 814.
1909 C, 101.
1909 D, 327, 403, 487, 488-490.
1915 D, 4, 85.
1915 K, 415.
1924 E, 749.
1928 B, 954, 962.
Matthew and Granger 1924 B, 3.
1925 B, 3.
Osborn, H. F. 1907 G, 133, 216, figs. 87, 205.
1909 D, 35.
1910 B, 100, 111, 527.
1912 G, 236, fig. 3.
Palmer, T. S. 1904 A, 240, 810.
Schlosser, M. 1898 B, 361, 365.
1900 B, 303.
1901 K, 468.
1903 B, 148.
1921 A, 111.
Scott, W. B. 1913 A, 560, 561.
Trouessart, E. L. 1904 A, 162.
Weber and Abel 1928 A, xix, 338.
Winge, H. 1924 A, 180, 241, 246.
Wood, H. E. 1927 A, 297.
Wortman, J. L. 1901 B, xii, 285, 286.
1902 A, xiii, 46.
1921 A, 178.
Zittel and Schlosser 1911 A, 377.
1923 A, 457, 664, 666.

Dissacus navajovius Cope.

Hay, O. P. 1902 A, 749.
Chardin, T. 1922 A, 20.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
1909 D, 487, 488, 490, text-fig. 91.
1914 B, 384.
1915 D, 86.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1898 B, 365 (D. carnifex).
1900 B, 303.
1921 A, 110 (D. navijovicus).
Trouessart, E. L. 1904 A, 163.
Paleocene (Torrejon); New Mexico.

Dissacus navajovius longævus Matthew.

Matthew, W. D. 1915 D, 86.
Lower Eocene (Wasatch); Wyoming.

Dissacus prænuntius Matthew.

Matthew, W. D. 1915 D, 86, 87.
Lower Eocene; Wyoming.

Dissacus saurognathus Wortman.

Hay, O. P. 1902 A, 749.
Ameghino, F. 1904 A, 21, fig. 8.
1906 A, 351, fig. 186.
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1901 C, 91.
1909 D, 487, 488, 490, 499.
1914 B, 384.
1915 D, 86.
Osborn, H. F. 1904 F, 6, fig. 2.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1921 A, 110.
Trouessart, E. L. 1904 A, 163.
Wortman, J. L. 1902 A, xiii, 42, fig. 63.
1921 A, 182.
Paleocene (Torrejon); New Mexico.

PACHYÆNA Cope. Type *P. ossifraga* Cope.

Hay, O. P. 1902 A, 749.
Chardin, T. 1921 A, 171.
Depéret, C. 1905 C, 703.
1907 B.
1908 A, 112.
1912 A, 706.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1906 B, 361.
1907 B, 534.
1909 C, 101.
1909 D, 327, 489, 491.
1910 E, 702.
1912 B, 182, 183.
1915 D, 85, 87, fig. 78.
1915 K, 415, 421.
1921 D, 219.
1924 E, 749.
1928 B, 962, 972, fig. 12.
Osborn, H. F. 1903 G, 667.
1905 I, 98.
1909 D, 45.
1910 B, 115, 126, 127, 133, 527.
Palmer, T. S. 1904 A, 493, 810.
Romer, A. S. 1924 C, 97, figs. 1, 3.
Schlosser, M. 1903 B, 148.
1911 A, 90.
Scott, W. B. 1913 A, 274, 277, 560.
Stehlin, H. G. 1905 A, 555.
Tomes, C. S. 1906 A, 45, fig. 20.
Trouessart, E. L. 1904 A, 163.
Wallace, A. R. 1876 A, i, 134.
Weber and Abel 1928 A, 338.
Winge, H. 1924 A, 241, 246.
Wortman, J. L. 1901 B, xii, 285, 286.
Zittel and Schlosser 1911 A, 377.
1923 A, 457.

Pachyæna gigantea Osborn and Wortman.

Hay, O. P. 1902 A, 749.
Chardin, T. 1922 A, 82.
Matthew, W. D. 1901 A, 32, figs. 13-17.
1909 C, 93.
1909 D, 489, 491, text-fig. 91.

Matthew, W. D. 1915 D, 97, figs. 78, 84.
Schlosser, M. 1903 B, 148.
Trouessart, E. L. 1904 A, 163.
Lower Eocene (Wasatch, Wind River?); Wyoming.

Pachyæna gigantea ponderosa Matthew.

Matthew, W. D. 1915 D, 98, figs. 85-87.
Lower Eocene (Wasatch); Wyoming.

Pachyæna gracilis Matthew.

Matthew, W. D. 1915 D, 89, figs. 78, 79.
Lower Eocene (Wasatch); Wyoming.

Pachyæna ossifraga Cope.

Hay, O. P. 1902 A, 750 (P. ossifraga, P. intermedia).
Abel, O. 1904 A, 183 (Mesonyx).
Cossmann, M. 1901 A, 62 (P. intermedia).
Matthew, W. D. 1901 A, 36.
1909 C, 93 (P. ossifraga, P. intermedia).
1909 D, 489, 491, text-fig. 91 (P. ossifraga); 489, 492 (P. intermedia).
1915 D, 92, 93, figs. 78, 81-83.
Merrill, G. P. 1907 A, 53.
Reeside, J. B. 1924 A, 46.
Schlosser, M. 1898 B, 365.
1903 B, 148 (P. ossifraga, P. intermedia).
Trouessart, E. L. 1904 A, 163 (P. ossifraga, P. intermedia).
Lower Eocene (Wasatch); Wyoming, New Mexico.

MESONYX Cope. Type *M. obtusidens* Cope.

Hay, O. P. 1902 A, 750.
Abel, O. 1913 B, 713.
Ameghino, F. 1905 C, 440.
Beddard, F. E. 1902 A, 456.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 393.
Kampfen, P. N. 1905 A, 500.
Kingsley, J. S. 1925 A, 211, fig. 223.
Lemoine, V. 1889 A, 255.
Lockwood, S. 1884 A, 355.
Matthew, W. D. 1901 A, 7.
1905 D, 23, fig. 1.
1907 B, 534.
1909 C, 101 (Synoplotherium).
1909 D, 323, 324, 325, 327, 403, 416, 489, 493, text-figs. 2-4 (Mesonyx); 316, 486, 489, 492 (Synoplotherium).
1912 B, 182.
1915 D, 85.
1924 E, 748.
Osborn, H. F. 1907 G, 79, 134, 142, 216, figs. 88, 205.
1910 B, 139, 161, 164, 170, 527.
1919 B, 558.
Palmer, T. S. 1904 A, 415, 810.
Schlosser, M. 1898 B, 365.
1901 K, 468.
1902 D, 301.
1903 B, 148.
Scott, W. B. 1913 A, 559, 561.
Seeley, H. G. 1886 A, 419.
Stromer, E. 1902 B, 554, 561.
Tomes, C. S. 1906 A, 53, fig. 19.
Trouessart, E. L. 1904 A, 164.
Wallace, A. R. 1876 A, I, 134.
Weber and Abel 1928 A, 338.
Winge, H. 1924 A, 180, 242.
Wood, H. E. 1927 A, 297.
Zittel and Schlosser 1911 A, 378, fig. 540.
1923 A, 457, 458, fig. 579.

Mesonyx? dakotensis Scott.

Hay, O. P. 1902 A, 750.
Oligocene (White River); South Dakota.

Mesonyx obtusidens Cope.

Cope, E. D. 1872 NN, 1.
Hay, O. P. 1902 A, 750.
Abel, O. 1913 B, 713, fig. 14.
1914 A, 65, fig. 31.
1922 C, 284, figs. 237, 240.
Gregory, W. K. 1927 E, 343.
Matthew, W. D. 1901 A, 36.
1909 C, 96.
1909 D, 489, 493, 499, 500, pl. xlvii, fig. 2; text-figs. 91-96.
Osborn, H. F. 1904 F, 43 ("Mesonyx").
1924 E, 3, 5, fig. 3.
1924 L, 146, fig. ("Mesonyx").
Schlosser, M. 1904 B, 455.
Scott, W. B. 1913 A, 559, fig. 276.
Thorpe, M. R. 1923 A, 37.
Trouessart, E. L. 1904 A, 164.
Woodward, A. S. 1898 B, 382.
Wortman, J. L. 1901 B, XII, 291.
1902 A, XIII, 39, text-figs. 61, 64.
Zittel and Schlosser 1911 A, 377, fig. 541.
1923 A, 458, fig. 580.
Middle Eocene (Bridger); Wyoming.

Mesonyx sp. indet.

Matthew, W. D. 1909 C, 98. Upper Eocene (Uinta); Utah.

DROMOCYON Marsh. Type *D. vorax* Marsh.

Marsh, O. C. 1876 H, 403.
Hay, O. P. 1902 A, 751 (Mesonyx, in part).
Ameghino, F. 1905 C, 440.
Gregory, W. K. 1910 A, 302, 404, 405.
1920 A, 148.
Lull, R. S. 1917 B, 553, fig. 176.
1918 C, 135, fig. 26.
Marsh, O. C. 1877 E.
Matthew, W. D. 1901 A, 6.
1905 B, 70.
1909 C, 96 (Syn. of Synoplotherium).
Matthew, W. D. 1909 D, 326 (Syn. of Synoplotherium).
Osborn, H. F. 1910 B, 150, 527, fig. 61.
Palmer, T. S. 1904 A, 245, 810.
Schlosser, M. 1921 A, 134.
Schuchert and Levene 1927 A, 334, fig.
Scott, W. B. 1913 A, 269, 271, 554, 559.
Wortman, J. L. 1901 B, XII, 285.
Zittel and Schlosser 1911 A, 377 (Syn. of Synoplotherium).
1923 A, 458 (Syn. of Synoplotherium).

Dromocyon vorax Marsh.

Marsh, O. C. 1876 H, 403.
Hay, O. P. 1902 A, 751 (Mesonyx).
Abel, O. 1907 E, (250).
1919 A, 734, fig. 548 (Synoplotherium).
1922 C, 284, figs. 238, 241 (Synoplotherium).
Eaton, G. F. 1922 A, 445.
Gregory, W. K. 1910 A, 405, fig. 26.
Lull, R. S. 1917 B, 551, pl. xvii.
Matthew, W. D. 1909 C, 96 (Syn. of Synoplotherium lanius).
1909 D, 327, 489, 492 (Synoplotherium).
Moodie, R. L. 1923 B, 125.
Osborn, H. F. 1910 B, 150, fig. 52.
1924 E, 5.
Schlosser, M. 1904 B, 453.
Scott, W. B. 1913 A, 271, fig. 140 (D. velox).
Trouessart, E. L. 1898 A, 226 (D. velox).
1904 A, 163.
Wieland, G. R. 1909 A, 125.
Wortman, J. L. 1901 B, xii, 288, pls. iv-viii; text-figs. 52, 54-60.
1902 A, xiv, 145.
1920 A, 17.
Middle Eocene (Bridger); Wyoming.

SYNOPLOTHERIUM Cope. Type *S. lanius* Cope.

Cope, E. D. 1872 RR, 1.
Hay, O. P. 1902 A, 750 (Mesonyx, in part).
Cope, E. D. 1872 R, 483.
Granger, W. 1909 A, 22 (Dromocyon a syn.).
Haug, E. 1911 A, 1528.
Lockwood, S. 1884 A, 355.
Matthew, W. D. 1915 D, 85.
Palmer, T. S. 1904 A, 657, 810.
Zittel and Schlosser 1911 A, 377.
1923 A, 458.

Synoplotherium lanius Cope.

Cope, E. D. 1872 RR, 1.
Hay, O. P. 1902 A, 750 (Mesonyx).
Matthew, W. D. 1909 C, 96.
1909 D, 489, 492.
Schlosser, M. 1904 B, 453 (Mesonyx).
Trouessart, E. L. 1904 A, 164 (Mesonyx).
Wortman, J. L. 1901 B, xii, 291 (Mesonyx).
Middle Eocene (Bridger); Wyoming.

HARPAGOLESTES Wortman. Type *H. macrocephalus* Wortman.

Wortman, J. L. 1901 B, xii, 285, 286.
Granger, W. 1909 A, 22.
Gregory, W. K. 1920 A, 148.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 101.
1909 D, 327, 489, 496.
1915 D, 85.
1924 E, 748.
1928 B, 973.
Osborn, H. F. 1910 B, 142, 168, 169, 527, fig. 49.
1924 E, 4.
Palmer, T. S. 1904 A, 311, 810.
Schlosser, M. 1904 B, 452.
Scott, W. B. 1913 A, 559, 560, 571.
Trouessart, E. L. 1904 A, 163.
Zittel and Schlosser 1911 A, 377.
1923 A, 458.

Harpagolestes breviceps Thorpe.

Thorpe, M. R. 1923 B, 219, figs. 1-3.
Upper Eocene (Uinta); Utah.

Harpagolestes immanis Matthew.

Matthew, W. D. 1909 D, 489, 497, text-figs. 91, 97, 100.
Peterson, O. A. 1919 A, 42.
Thorpe, M. R. 1923 A, 38.
Upper Eocene (Uinta); Utah.

Harpagolestes macrocephalus Wortman.

Wortman, J. L. 1901 B, xii, 286, pl. iii; text-fig. 44.
Abel, O. 1922 C, 284.
Matthew, W. D. 1909 C, 96.
1909 D, 489, 496.
Schlosser, M. 1904 B, 452.
Thorpe, M. R. 1923 A, 38.
Trouessart, E. L. 1904 A, 163.
Middle Eocene (Bridger); Wyoming.

Harpagolestes uintensis (Scott).

Hay, O. P. 1902 A, 750 (Mesonyx).
Gregory, W. K. 1927 E, 343 (Mesonyx).
Matthew, W. D. 1901 A, 36.
1909 C, 98.
1909 D, 489, 497.
Osborn, H. F. 1924 E, 1, 2 (Mesonyx).
Peterson, O. A. 1919 A, 41.
Thorpe, M. R. 1923 B, 218.
Trouessart, E. L. 1904 A, 164 (Mesonyx).
Wortman, J. L. 1901 B, xii, 285, 286 (Mesonyx, Dromocyon).
1902 A, xiii, 46 (Mesonyx).
Upper Eocene (Uinta); Utah.

Harpagolestes sp. indet.

Matthew, W. D. 1909 C, 98. Upper Eocene (Uinta); Wyoming.

HAPALODECTES Matthew. Type *Dissacus leptognathus* Osborn and Wortman.

Matthew, W. D. 1909 C, 93, 101.
1909 D, 327, 487-489, 498.
1915 D, 85, 102.
Matthew and Granger 1925 D, 2, figs. 1, 2.
Osborn, H. F. 1909 D, 126.
1912 G, 236, fig. 3.
Schlosser, M. 1921 A, 112.
Zittel and Schlosser 1911 A, 377.
1923 A, 457.

Hapalodectes compressus Matthew.

Matthew, W. D. 1909 D, 488, 499, pl. xlv, fig. 5; text-fig. 101.
1915 D, 103.
Lower Eocene (Wind River); Wyoming.

Hapalodectes leptognathus (Osborn and Wortman).

Hay, O. P. 1902 A, 749 (Dissacus).
Matthew, W. D. 1909 C, 93.
1909 D, 487, 488, 498.
1915 D, 102.
Schlosser, M. 1903 B, 148 (Dissacus).
Trouessart, E. L. 1904 A, 163 (Dissacus).
Lower Eocene (Wasatch); Wyoming.

Hapalodectes sp. indet.

Matthew, W. D. 1909 C, 93. Lower Eocene (Wasatch); Wyoming.

Superfamily OXYÆNOIDÆ, new form.

Abel, O. 1913 B, 714, 718 (Pseudocreodi).
1914 A, 63, 65 (Pseudocreodi).
1919 A, 734 (Pseudocreodi).
1922 C, 280 (Pseudocreodi).
Chardin, T. 1922 A, 87 (Pseudocreodi).
Gregory, W. K. 1920 A, 239 (Pseudocreodi).
Matthew, W. D. 1909 D, 327, 330 (Pseudocreodi).
Matthew, W. D. 1915 D, 5 (Pseudocreodi).
Osborn, H. F. 1910 B, 527 (Pseudocreodi, Oxyænoidea).
Weber and Abel 1928 A, 338, 342 (Pseudocreodi).
Zittel and Schlosser 1911 A, 378 (Pseudocreodi).
1923 A, 458 (Pseudocreodi).

OXYÆNIDÆ Cope.

Cope, E. D. 1877 K, 89.
Hay, O. P. 1902 A, 756 (Oxyæninæ).
Abel, O. 1912 D, 603 ("oxyæniden").
1912 F, 501.
1913 B, 714 ("oxyæniden").
1914 A, 62, 67 ("oxyæniden").
1919 A, 737.
1920 A, 421, 422 ("oxyæniden").
1921 A, 141 ("oxyæniden").
1922 C, 287 ("oxyæniden").
Arldt, T. 1912 A, 702.
Behlen, H. 1907 A, 275 ("oxyæniden").
Branca, W. 1915 A, 43.
Chardin, P. T. 1927 A, 20 ("oxyénidés").
Cossmann, M. 1901 A, 62.
Depéret, C. 1905 C, 703 ("oxyænidés").
Kellogg, R. 1922 A, 94.
Martin, R. 1906 A, 585.
Matthew, W. D. 1901 A, 6, 7, 21.
1905 B, 69, 70.
1905 D, 31.
1909 C, 93, 96, 98, 100.
1909 D, 564.
Matthew, W. D. 1914 B, 387.
1915 D, 42.
1915 K, 445.
1921 D, 214.
1928 B, 971, 974, 980, fig. 13.
Matthew and Granger 1924 A, 5.
1925 A, 12.
Osborn, H. F. 1909 D, 132.
1910 B, 626.
Schlosser, M. 1903 B, 146 ("oxyæniden").
1904 B, 452.
Scott, W. B. 1913 A, 687.
Seeley, H. G. 1886 A, 418.
Trouessart, E. L. 1904 A, 164.
Weber, M. 1904 A, 541, 551.
Weber and Abel 1928 A, 317, 338.
Winge, H. 1924 A, 177, 184, 242 (Palæonictidini, Oxyænini).
Wortman, J. L. 1901 B, xii, 283, 285.
1902 A, xiii, 115, 116, 434.
Zittel and Schlosser 1911 A, 378.
1923 A, 458, 482, 666-668.

OXYÆNINÆ Hay.

Hay, O. P. 1902 A, 755 (Oxyæninæ, Ambloctonidæ).
Abel, O. 1919 A, 737.
Arldt, T. 1907 D, 670 (Palæonictidæ).
1912 A, 702 (Palæonictidæ).
Behlen, H. 1907 A, 274 ("palaeonictiden").
Cossmann, M. 1901 A, 62 (Palæonictidæ).
Matthew, W. D. 1901 A, 5-7 (Palæonictidæ).
1905 D, 28 (Palæonictidæ).
1909 C, 93, 100 (Palæonictidæ).
1909 D, 410, 412, 419 (Palæonictidæ); 409 (Oxyæninæ).
Osborn, H. F. 1909 D, 93 (Ambloctonidæ); 40, 42, 46 (Palæonictidæ).
Osborn, H. F. 1910 B, 626 (Palæonictidæ).
Schlosser, M. 1903 B, 146 ("palæonictiden").
1904 B, 451 (Palæonictidæ); 456 (Oxyæninæ).
Trouessart, E. L. 1904 A, 164.
Wortman, J. L. 1901 B, xi, 338; xii, 144, 201, 205, 283 (Palæonictidæ).
1902 A, xiv, 23 (Palæonictidæ).
Zittel and Schlosser 1911 A, 379 (Oxyæninæ); 566 (Palæonictidæ).
1923 A, 459 (Oxyæninæ); 459 (Palæonictidæ).

OXYÆNA Cope. Type *O. lupina* Cope.

Hay, O. P. 1902 A, 756.
Abel, O. 1912 D, 602.
1920 A, 422, fig. 637.
1921 A, 140, fig. 21.
1922 C, 278, 282, fig. 235.
Ameghino, F. 1885 A, 154.
Bensley, B. A. 1901 C, 252.
Cope, E. D. 1875 Y, 444, 448.
Cossmann, M. 1901 B, 187.
Granger, W. 1914 A, 202.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 393.
Lavocat, A. 1896 A, 26.
Loomis, F. B. 1905 C, 296.

Matthew, W. D. 1901 A, 6.
1905 D, 25, 31, figs. 5, 12.
1907 B, 534.
1909 C, 100.
1909 D, 318, 322, 326, 327, 408-410, text-figs. 1, 47, 48.
1912 B, 182.
1915 D, 42, 46.
1915 K, 421, 447, fig. 23.
1924 E, 749.
1928 B, 962, 971, 972, 974, figs. 12, 13.
Osborn, H. F. 1898 V, 206.
1907 G, 136, figs. 92, 94.
1909 D, 38, 45, 48.
1910 B, 127, 153, 527, fig. 44.
1919 B, 558.
Palmer, T. S. 1904 A, 491, 810.
Schlosser, M. 1898 J, 520.
1903 B, 146.
1903 D, 560.
1904 B, 455.
Schmidt, O. 1886 A, 283.
Scott, W. B. 1913 A, 274, 277, 565, 566, 571, 573, figs. 279, 280.
Stromer, E. 1902 A, 239.
1902 B, 554, 561.
Thorpe, M. R. 1923 A, 29.
Tomes, C. S. 1906 A, 54, fig. 21.
Trouessart, E. L. 1904 A, 164.
Wallace, A. R. 1876 A, i, 134.
Weber, M. 1904 A, 541.
Winge, H. 1924 A, 177, 185, 242.
Wortman, J. L. 1901 B, xii, 285.
1902 A, xiii, 115, 117, 433.
1903 A, xv, 431.
1906 A, 91.
Zittel and Schlosser 1911 A, 379.
1923 A, 459.

Oxyæna æquidens Matthew.

Matthew, W. D. 1915 D, 46, 47, fig. 41.
1914 B, 384 (O. æquidens).
Lower Eocene (Wasatch); Wyoming.

Oxyæna forcipata Cope.

Hay, O. P. 1902 A, 757.
Cope, E. D. 1875 Y, 444.
Matthew, W. D. 1909 C, 93.
1909 D, 412.
1915 D, 46, 49, figs. 45, 46.
Merrill, G. P. 1907 A, 52.
Reeside, J. B. 1924 A, 46.
Trouessart, E. L. 1904 A, 164.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Oxyæna gulo Matthew.

Matthew, W. D. 1915 D, 46, 53, figs. 47, 48.
Lower Eocene (Wasatch); Wyoming.

Oxyæna lupina Cope.

Hay, O. P. 1902 A, 757 (O. lupina, O. huerfanensis, O. morsitans).
Gidley, J. W. 1926 E, 41 (This species?).
Loomis, F. B. 1907 B, 356.
Matthew, W. D. 1905 D, 30, fig. 10.
1909 C, 93 (O. lupina, O. huerfanensis, O. morsitans).
1909 D, 412 (O. lupina, O. huerfanensis, O. morsitans).
1915 D, 46, 49, fig. 44.
Merrill, G. P. 1907 A, 52 (O. lupina, O. morsitans).
Osborn, H. F. 1904 F, 32.
1909 D, 49 (O. huerfanensis).
Reeside, J. B. 1924 A, 46 (O. lupina, O. morsitans).
Schlosser, M. 1903 B, 147.
1903 D, 561.
Scott, W. B. 1913 A, 572, fig. 284.
Trouessart, E. L. 1904 A, 164 (O. lupina, O. morsitans, O. huerfanensis).
Wortman, J. L. 1901 B, xii, 378.
Lower Eocene (Wasatch); Wyoming, New Mexico: (Wind River); Wyoming.

Oxyæna pardalis Matthew.

Matthew, W. D. 1915 D, 46, 55, fig. 49.
Lower Eocene (Wasatch); Wyoming.

Oxyæna transiens Matthew.

Matthew, W. D. 1915 D, 46, 47, figs. 42, 43.
Thorpe, M. R. 1923 B, 223.
Lower Eocene (Wasatch); Wyoming, Colorado?

Oxyæna sp. indet.

Matthew, W. D. 1909 C, 93. Lower Eocene (Wind River); Wyoming.
Merrill, G. P. 1907 A, 53. Lower Eocene (Wasatch); Wyoming.

PATRIOFELIS Leidy. Type *P. ulta* Leidy.

Hay, O. P. 1902 A, 757 (Patriofelis); 778 (Ælurotherium).
Abel, O. 1914 A, 67.
Beddard, F. E. 1902 A, 449 (Patriofelis); 456 (Limnofelis).
Cossmann, M. 1901 B, 187.
Fraas, E. 1905 B, 378.
Granger, W. 1909 A, 22.
Gregory, W. K. 1910 A, 313, 454, fig. 30.
1920 A, 239.
Haug, E. 1911 A, 1528.
Kellogg, R. 1922 A, 92.
Lull, R. S. 1917 B, 553, fig. 176.
Lydekker, R. 1904 C, 63.
Matthew, W. D. 1901 A, 6 (Protopsalis a syn.).
1905 B, 70.
1905 D, 31.
1909 C, 100.
1909 D, 417, 565 (Patriofelis); 417 (Oreocyon, Protopsalis, Ælurotherium, Limnofelis as syns.).
1910 C, 289 (Ælurotherium).
1912 B, 182.
1915 D, 63.
1924 E, 748.
1928 B, 971, 974, fig. 13.
Osborn, H. F. 1905 I, 101 (Ælurotherium).
1907 G, 138, fig. 95.

Osborn, H. F. 1909 D, 45, 50.
1910 B, 627, fig. 61.
Osborn, R. C. 1903 A, 653.
Palmer, T. S. 1904 A, 517, 810 (Patriofelis); 82, 826 (Ælurotherium).
Schlosser, M. 1897 B, 20.
1898 F, 134.
1898 J, 521.
1903 B, 147.
1903 D, 561.
1904 B, 456.
Scott, W. B. 1913 A, 274, 568, 571.
Stromer, E. 1902 A, 239.
1902 B, 554, 561.
1908 B, 168.
Thorpe, M. R. 1923 A, 29, 30.
Trouessart, E. L. 1904 A, 165.
Wallace, A. R. 1876 A, I, 134.
Weber, M. 1904 A, 541, 551.
Weber and Abel 1928 A, 338.
Winge, H. 1924 A, 177, 185, 242.
Wortman, J. L. 1901 B, XII, 285 (Patriofelis); 201, 205 (Ælurotherium).
1902 A, XIII, 115, 117, 433 (Patriofelis, Protopsalis); XIV, 23 (Ælurotherium).
1906 A, 90, 91.
Zittel and Schlosser 1911 A, 379.
1923 A, 458, 459, 667.

Patriofelis ferox (Marsh).

Hay, O. P. 1902 A, 757 (P. ferox); 778 (Ælurotherium leidyanum).
Abel, O. 1913 B, 715, fig. 18.
1914 A, 68, fig. 36.
1922 C, 288, fig. 242.
Ameghino, F. 1905 C, 441, fig. 88.
Leche, W. 1915 A, 350.
Matthew, W. D. 1905 D, 33, fig. 11.
1909 C, 96.
1909 D, 412, 417, 418, 420, text-figs. 44-52 (Ælurotherium leidyanum, A. bicuspis as syns.).
Osborn, H. F. 1904 F, 8, 25, 38, fig. 8.
1909 D, 50.
1910 B, 165, fig. 65 (P. vorax).
Schlosser, M. 1898 F, 135 (Ælurotherium leidyanum).
1903 D, 561.
1904 B, 456 (P. ferox, P. leidyanum); 451 (Ælurotherium bicuspis).
Scott, W. B. 1913 A, 271, 569, 570, figs. 140, 282, 283.
Thorpe, M. R. 1923 A, 29, 30.
Trouessart, E. L. 1904 A, 165 (P. ferox); 260 (P. bicuspis).
Wortman, J. L. 1901 B, XII, 205, figs. (Ælurotherium bicuspis).
1902 A, XIII, 117, figs. 65-70; XIV, 23.
Zittel and Schlosser 1923 A, 458, fig. 582.
Middle Eocene (Bridger); Wyoming.

Patriofelis latidens (Marsh).

Hay, O. P. 1902 A, 757.
Matthew, W. D. 1909 D, 417, 418, 420 (Syn. of P. ferox).
Schlosser, M. 1904 B, 451 (Ælurotherium).
Thorpe, E. L. 1923 A, 29, 31.
Trouessart, E. L. 1904 A, 260 (Ælurotherium).
Wortman, J. L. 1901 B, XII, 202 (Ælurotherium; syn. of P. ferox).
Middle Eocene (Bridger); Wyoming.

Patriofelis tigrina (Cope).

Hay, O. P. 1902 A, 757.
Matthew, W. D. 1909 C, 93 (P. tigrinus).
1909 D, 412, 419, 432.
1915 D, 63.
Trouessart, E. L. 1904 A, 165 (Protopsalis).
Wortman, J. L. 1902 A, XIII, 117 (Protopsalis); 123 (Patriofelis).
Lower Eocene (Wind River); Wyoming.

Patriofelis ulta Leidy.

Hay, O. P. 1902 A, 758.
Hayden, F. V. 1871 A, 145.
Matthew, W. D. 1909 C, 96.
1909 D, 412, 419, 432.
1915 D, 62.
Merrill, G. P. 1907 A, 54.
Osborn, H. F. 1909 D, 50.
Thorpe, M. R. 1923 A, 32.
Trouessart, E. L. 1904 A, 165.
Middle Eocene (Bridger); Wyoming.

PALÆONICTIS Blainville. Type *P. gigantea* Blainville.

Hay, O. P. 1902 A, 755.
Ameghino, F. 1902 D, 423.
Broom, R. 1909 C, 133.
Chardin, T. 1922 A, 54.
Cope, E. D. 1875 Y, 447.
Depéret, C. 1905 C, 703.
1908 A, 112.
1912 A, 706.
Gervais, P. 1852 A, 130.
1859 A, 225.
Heilprin, A. 1887 A, 393 (Palæonyctis).
Lydekker, R. 1904 C, 63.
Matthew, W. D. 1906 B, 361.
1906 C, 216, text-fig. 6.
1909 C, 100.
1909 D, 327, 409-411, 419.
1910 C, 289.
1912 B, 184.
1915 D, 42, 57.
1915 K, 415, 421.
1924 E, 749.
1928 B, 962, 974, fig. 13.
Miller, G. S. 1923 A, 13.
Osborn, H. F. 1905 I, 98.
1907 G, 135, figs. 90, 95, 96.
1910 B, 115, 119, 126, 127, 527.
Schlosser, M. 1903 I, 31.
1906 A, 31.
1911 A, 90.
Scott, W. B. 1913 A, 277, 574.
Seeley, H. G. 1878 A, 222.
Stehlin, H. G. 1905 A, 555.
Trouessart, E. L. 1904 A, 260.
Weber and Abel 1928 A, xxi, 317, 338.
Winge, H. 1924 A, 177, 184, 242, 246.
Wortman, J. L. 1901 B, XII, 201, 205.

Wortman, J. L. 1903 A, xv, 431.
Zittel and Schlosser 1911 A, 379.
  1923 A, 458, 459, 665.

Palæonictis occidentalis Osborn and Wortman.

Hay, O. P. 1902 A, 756.
Chardin, T. 1922 A, 82.
Matthew, W. D. 1909 C, 93.
  1909 D, 412.
  1915 D, 58.
Osborn, H. F. 1904 F, 7.
Trouessart, E. L. 1904 A, 260.
Wortman, J. L. 1901 B, xii, 202 (P. americanus).
  Lower Eocene (Wasatch); Wyoming.

AMBLOCTONUS Cope. Type *A. sinosus* Cope.

Hay, O. P. 1902 A, 756.
Ameghino, F. 1885 A, 154.
Cope, E. D. 1875 Y, 444, 448.
Matthew, W. D. 1901 A, 6 (Amblyctonus).
  1909 C, 100.
  1909 D, 327, 409, 410, 411, 419.
  1915 D, 59.
  1928 B, 962, 973 (Amblyctonus).
Osborn, H. F. 1907 G, 138, fig. 95.
  1910 B, 527.
Palmer, T. S. 1904 A, 90, 809.
Schlosser, M. 1921 A, 107.
Trouessart, E. L. 1904 A, 260 (Amblyctonus).
Winge, H. 1924 A, 177, 184.
Wortman, J. L. 1901 B, xii, 202.
Zittel and Schlosser 1911 A, 379.
  1923 A, 459.

Ambloctonus coloradensis Matthew.

Matthew, W. D. 1909 C, 96 (Patriofelis?).
  1909 D, 412, 419, 432 (Patriofelis).
Matthew, W. D. 1915 D, 62.
Osborn, H. F. 1897 G, 256 (Patriofelis ulta).
  1898 G, 256 (Patriofelis ulta).
  1900 I, 278, fig. 8 (Patriofelis ulta).
  Middle Eocene (Huerfano); Colorado.

Ambloctonus hyænoides Matthew.

Matthew, W. D. 1915 D, 61, figs. 50, 52, 53.
  Lower Eocene (Wasatch); New Mexico.

Ambloctonus priscus Matthew.

Matthew, W. D. 1915 D, 60, figs. 50, 51.
  Lower Eocene (Wasatch); Wyoming.

Ambloctonus sinosus Cope.

Hay, O. P. 1902 A, 756.
Matthew, W. D. 1909 C, 93.
  1909 D, 412.
  1915 D, 61.
Reeside, J. B. 1924 A, 46.
  Lower Eocene (Wasatch); New Mexico.

LIMNOCYONINÆ Wortman.

Wortman, J. L. 1902 A, xiii, 117, 124, 128.
Abel, O. 1914 A, 67.
  1919 A, 737.
Matthew, W. D. 1909 D, 408, 409.
  1915 D, 69.
Schlosser, M. 1904 B, 456.
Trouessart, E. L. 1904 A, 165.
Zittel and Schlosser 1911 A, 378.
  1923 A, 459, 667.

PROLIMNOCYON Matthew. Type *P. atavus* Matthew.

Matthew, W. D. 1915 D, 42, 67.
  1928 B, 962, 972, fig. 12.
Winge, H. 1924 A, 184.
Zittel and Schlosser 1923 A, 459.

Prolimnocyon antiquus Matthew.

Matthew, W. D. 1915 D, 67, 70, figs. 57, 63.
  Lower Eocene (Wind River); Wyoming.

Prolimnocyon atavus Matthew.

Matthew, W. D. 1915 D, 67, 68, figs. 57-61.
  Lower Eocene (Wasatch); Wyoming.

Prolimnocyon robustus Matthew.

Matthew, W. D. 1915 D, 67, 70, figs. 57, 62.
  Lower Eocene (Wasatch); Wyoming.

LIMNOCYON Marsh. Type *L. verus* Marsh.

Marsh, O. C. 1872 G, 126.
Hay, O. P. 1902 B, 751 (Stypolophus, in part); 755 (Telmatocyon).
Abel, O. 1913 B.
  1919 A, 737.
Granger, W. 1909 A, 22.
Gregory, W. K. 1920 A, 146, fig. 76.
Haug, E. 1911 A, 1528.
Marsh, O. C. 1899 B, 397 (Telmatocyon).
Matthew, W. D. 1901 A, 6, 20, 21 (Telmatocyon); 23 (Syn. of Sinopa).
  1906 C, 206.
  1909 C, 100.
  1909 D, 323, 325, 327, 403, 408-410, 433-435, 464, text-figs. 2, 4, 47, 48.
  1924 E, 748.
  1928 B, 973, 974, fig. 13.
Matthew and Granger 1925 A, 11.
Moodie, R. L. 1923 B, 174.
Osborn, H. F. 1909 D, 45.
  1910 B, 131, 133, 167, 527.
Palmer, T. S. 1904 A, 376, 811 (Lymnocyon); 667, 812 (Telmatocyon).
Peterson, O. A. 1919 A, 42.
Schlosser, M. 1904 B, 456.
  1911 A, 150.
Scott, W. B. 1913 A, 573.
Thorpe, M. R. 1923 A, 37.
Trouessart, E. L. 1904 A, 165.
Winge, H. 1924 A, 177, 185, 242.
Wortman, J. L. 1901 B, xii, 281, 285.
  1902 A, xiii, 115, 125, 197 (Lymnocyon); 198 (Telmatocyon a syn.).

Zittel and Schlosser 1911 A, 378.
1923 A, 459.

Limnocyon douglassi Peterson.

Peterson, O. A. 1919 A, 45, pl. xxxiv, figs. 11-14.
Upper Eocene (Uinta); Utah.

Limnocyon potens Matthew.

Matthew, W. D. 1909 D, 412, 447.
Moodie, R. L. 1918 C, 277, fig. 20.
1918 D, 506.
1923 B, 252, 268, pl. li.
Peterson, O. A. 1919 A, 46.
Upper Eocene (Washakie); Wyoming.

Limnocyon verus Marsh.

Marsh, O. C. 1872 G, 126.
Hay, O. P. 1902 A, 752 (Stypolophus); 755 (Telmatocyon riparius).
Abel, O. 1913 B, 715, fig. 17.
1914 A, 68, fig. 35.
Lydekker, R. 1910 F, 656, fig. 2.
Matthew, W. D. 1909 C, 96.
1909 D, 412, 433, 434, pl. xliv, fig. 1; pl. xlvii, fig. 2; text-figs. 53-58.
Peterson, O. A. 1919 A, 46.
Schlosser, M. 1904 B, 456.
Thorpe, M. R. 1923 A, 32 (L. verus); 33 (L. riparius).
Trouessart, E. L. 1904 A, 165.
Wortman, J. L. 1902 A, xiii, 198, pl. vi, figs. 71-75.
Middle Eocene (Bridger); Wyoming.

Limnocyon sp. indet.

Matthew, W. D. 1909 C, 93, 96, 98. Lower Eocene (Wind River); Wyoming: Middle Eocene (Bridger); Wyoming.

DIPSALIDICTIS Matthew. Type *D. platypus* Matthew.

Matthew, W. D. 1915 D, 42, 63.
1928 B, 962.
Winge, H. 1924 A, 177, 185.
Zittel and Schlosser 1923 A, 459.

Dipsalidictis platypus Matthew.

Matthew, W. D. 1915 D, 65, figs. 54-56.
1914 B, 384 (No description).
Thorpe, M. R. 1923 B, 223.
Lower Eocene (Wasatch); Wyoming.

THINOCYON Marsh. Type *T. velox* Marsh.

Hay, O. P. 1902 A, 761.
Abel, O. 1922 C, 288.
Granger, W. 1909 A, 22.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 100.
1909 D, 324, 325, 327, 408, 410, 433, 448, text-figs. 3, 4, 47, 48.
Palmer, T. S. 1904 A, 673, 812.
Winge, H. 1924 A, 177, 184, 242.
Wortman, J. L. 1902 A, xiii, 197, 198 (Syn? of Limnocyon).
Zittel and Schlosser 1911 A, 378.
1923 A, 459, 667.

Thinocyon cledensis Matthew.

Matthew, W. D. 1909 D, 412, 460.
Upper Eocene (Washakie); Wyoming.

Thinocyon medius (Wortman).

Wortman, J. L. 1902 A, xiii, 202, figs. 81, 82 (Limnocyon).
Leche, W. 1915 A, 357 (Thiocyon).
Matthew, W. D. 1909 C, 96.
1909 D, 412, 453, 459, text-figs. 62-70.
Schlosser, M. 1904 B, 457 (Limnocyon).
Thorpe, M. R. 1923 A, 33, 34.
Trouessart, E. L. 1904 A, 165 (Limnocyon).
Zittel and Schlosser 1911 A, 378, fig. 542 (Limnocyon).
1923 A, 458, fig. 581 (Limnocyon).
Middle Eocene (Bridger); Wyoming.

Thinocyon minimus Matthew.

Matthew, W. D. 1909 D, 300, 412 (No description).
Middle Eocene (Bridger); Wyoming.

Thinocyon mustelinus Matthew.

Matthew, W. D. 1909 D, 461.
Thorpe, M. R. 1923 A, 34.
Middle Eocene (Bridger); Wyoming.

Thinocyon velox Marsh.

Hay, O. P. 1902 A, 761.
Matthew, W. D. 1909 C, 96.
1909 D, 412, 449, pl. xliv, figs. 2, 3; text-figs. 59-61.
Schlosser, M. 1904 B, 457 (Limnocyon).
Thorpe, M. R. 1923 A, 33.
Trouessart, E. L. 1904 A, 165 (Limnocyon).
Wortman, J. L. 1902 A, xiii, 202, figs. 76-80 (Limnocyon).
Middle Eocene (Bridger); Wyoming.

Thinocyon sp. indet.

Matthew, W. D. 1909 C, 96.
1909 D, 412.
Lower Eocene (Wind River); Wyoming: Middle Eocene (Bridger); Wyoming: Upper Eocene (Uinta); Wyoming.

OXYÆNODON Matthew. Type *O. dysodus* Matthew.

Hay, O. P. 1902 A, 759.
Bensley, B. A. 1901 C, 252.
Cossmann, M. 1901 A, 62.
Matthew, W. D. 1909 C, 100.
1909 D, 327, 408, 410, 433.
1924 E, 748.

Matthew, W. D. 1928 B, 973.
Palmer, T. S. 1904 A, 491, 810.
Schlosser, M. 1903 B, 148.
Scott, W. B. 1913 A, 555.
Wortman, J. L. 1902 A, xiii, 116, 197.
Zittel and Schlosser 1911 A, 378.
1923 A, 459.

Oxyænodon dysclerus Hay.

Hay, O. P. 1902 A, 759.
Matthew, W. D. 1909 C, 98.
1909 D, 412.
Peterson, O. A. 1919 A, 42, 43, pl. xxxiv, figs. 1, 2; text-figs. 1, 2.
Schlosser, M. 1903 B, 147 (O. dyssodus).
Trouessart, E. L. 1904 A, 165 (Limnocyon).
Wortman, J. L. 1902 A, xiii, 197, 206 (Limnocyon dysodus, not Oxyænodon dysodus Matthew).
Upper Eocene (Uinta); Utah.

Oxyænodon dysodus Matthew.

Hay, O. P. 1902 A, 759.
Cossmann, M. 1901 A, 62 (O. dipodus).
Matthew, W. D. 1909 C, 98.
1909 D, 412.
Peterson, O. A. 1919 A, 42.
Schlosser, M. 1903 B, 147.
1904 B, 457 (Limnocyon dysotus).
Trouessart, E. L. 1904 A, 165 (Limnocyon).
Upper Eocene (Uinta); Utah.

MACHÆROIDES Matthew. Type *M. eothen* Matthew.

Matthew, W. D. 1909 D, 327, 410, 461, 462, text-fig. 48.
Abel, O. 1913 B, 714 (Machairoides).
1914 A, 67.
1919 A, 737 (Machairoides).
Scott, W. B. 1913 A, 573.
Zittel and Schlosser 1911 A, 379.

Machæroides eothen Matthew.

Matthew, W. D. 1909 D, 412, 462, text-fig. 71.
Middle Eocene (Bridger); Wyoming.

HYÆNODONTIDÆ Leidy.

Leidy, J. 1869 A, 38.
Hay, O. P. 1902 A, 756.
Abel, O. 1912 D, 601 ("hyænodontiden").
1912 F, 501, 678.
1913 B, 714 ("hyænodontiden").
1914 A, 60 ("hyænodontiden").
1919 A, 735.
1920 A, 421, 422 ("hyænodontiden").
1921 A, 141 ("hyænodontiden").
1922 C, 286 ("hyænodontiden").
Ameghino, F. 1889 A, 1015.
1905 C, 442.
Arldt, T. 1907 D, 659.
1912 A, 702.
Behlen, H. 1907 A, 275 ("hyaenodontiden").
Branca, W. 1915 A, 43.
Chardin, T. 1922 A, 58.
1927 A, 20 ("hyénodontidés").
Cope, E. D. 1880 U, 154.
Cossmann, M. 1901 A, 62.
Depéret, C. 1908 A, 113.
Fraas, E. 1904 A, 14 ("hyaenodontiden").
Gregory, W. K. 1914 E, 526.
1920 A, 208.
Kellogg, R. 1922 A, 94.
Leche, W. 1921 A, 72.
Lydekker, R. 1915 B, 277.
Martin, R. 1906 A, 410 (Syn. of Proviverridæ).
Matthew, W. D. 1901 A, 1, 5, 7, 19, 21.
1905 B, 70.
1905 D, 32.
1909 C, 127.
1909 D, 300, 324, 327, 330, 463-468.
1913 A, 312.
1914 B, 387.
1915 D, 71.
1915 K, 445.
1921 D, 214.
1928 B, 971, 974, 980, fig. 13.
Matthew and Granger 1925 A, 12.
1925 C, 1.
Osborn, H. F. 1905 H, 218.
1905 I, 103.
1909 D, 127.
1910 B, 618.
Schlosser, M. 1904 B, 452, 457.
1911 A, 73, 148.
Schwarz, E. 1924 A, 420 ("hyænodons").
Scott, W. B. 1913 A, 683.
Seeley, H. G. 1886 A, 418.
Steinmann, G. 1907 A, 470.
Stromer, E. 1906 A, 209.
1916 A, 403.
1926 A, 110.
Thorpe, M. R. 1922 B, 277.
Trouessart, E. L. 1904 A, 166.
Weber, M. 1904 A, 539.
Weber and Abel 1928 A, 336, 338.
Winge, H. 1896 A, 126, 127 (With subfamilies Proviverrini, Mesonychini, Hyænodontini).
1919 A, 59.
1924 A, 177, 178, 181, 241 (Hyænodontini, Proviverrini).
Winge and Miller 1921 A, 12, 45.
Wortman, J. L. 1901 B, xii, 283, 285.
1902 A, xiii, 433.
Zittel and Schlosser 1911 A, 379.
1923 A, 459, 482, 666-668, 670 (Hyænodontidæ); 461 (Hyænodontinæ).

PROVIVERRINÆ Matthew.

Matthew, W. D. 1909 C, 101.
Hay, O. P. 1902 A, 751 (Proviverridæ).
Abel, O. 1919 A, 735 (Proviverrinæ).
Arldt, T. 1907 D, 677 (Proviverridæ).
Behlen, H. 1907 A, 275 ("proviverriden").
Depéret, C. 1905 C, 703 ("proviverridés").
Martin, R. 1906 A, 410 (Proviverridæ).
Matthew, W. D. 1901 A, 56 (Proviverridæ).

Matthew, W. D. 1909 D, 464, 465 (Proviverridæ, Proviverrinæ).
Palmer, T. S. 1904 A, 766, 811 (Proviverridæ).
Schlosser, M. 1886 C, 293 (Proviverridæ).
1898 B, 361, 366.
Steinmann, G. 1907 A, 470 (Proviverridæ).
Stromer, E. 1908 B, 168 (Proviverridæ).
Weber and Abel 1928 A, 338.
Zittel and Schlosser 1911 A, 379.
1923 A, 460.

SINOPA Leidy. Type *S. rapax* Leidy.

Leidy, J. 1871 F, 115.
Hay, O. P. 1902 A, 751 (Stypolophus).
Abel, O. 1914 A, 62.
1922 C, 286.
Ameghino, F. 1905 C, 442.
Andrews, C. W. 1906 A, xxii.
Bardenfleth, K. S. 1913 A, 76 (Stypolophus).
Chardin, T. 1922 A, 59, 82.
1924 A, 13.
Cope, E. D. 1875 Y, 448 (Stypolophus).
1880 U, 153 (Stypolophus).
Dollo and Chardin 1924 A, 13.
Fraas, E. 1904 A, 14.
Granger, W. 1909 A, 22.
Gregory, W. K. 1918 A, 4.
Haug, E. 1911 A, 1528.
Leche, W. 1915 A, 350.
Lönnberg, E. 1910 B, 238.
1911 A, 60.
Lydekker, R. 1904 C, 63, fig. 4.
1910 F, 655.
Martin, R. 1906 A, 410 (Sinopa, Stypolophus).
Matthew, W. D. 1901 A, 6, 19, 20, 23.
1905 B, 69 (Sinopa); 71 (Prototomus).
1905 D, 32.
1906 C, 203, 204, 205, 216, fig. 6 (Sinopa); 204 (Stypolophus, Prototomus).
1907 B, 534.
1909 C, 101.
1909 D, 574, figs. 2, 3 (Sinopa); 417 (Prototomus); 318, 469 (Stypolophus).
1915 D, 71.
1915 K, 421.
1924 E, 748, 749 (Sinopa).
1928 B, 962, 971, 972, 974, figs. 12, 13.
Matthew and Granger 1925 A, 11.
Miller, G. S. 1923 A, 11.
Osborn, H. F. 1898 V, 206 (Stypolophus).
1907 G, 134, figs. 89, 94, 96, 196.
1909 D, 38, 54.
1910 B, 127, 133, 161, 164, 527.
1912 G, 236, fig. 3.
Osborn and Wortman 1892 A, 110 (Stypolophus).
Palmer, T. S. 1904 A, 633, 811 (Sinopa); 651, 811 (Stypolophus).
Schlosser, M. 1898 J, 522.
1904 B, 457.
1911 A.
Scott, W. B. 1913 A, 555, 565, 566, 567, figs. 279, 280.
Seeley, H. G. 1886 A, 418 (Stypolophus).
Steinmann, G. 1912 B, 727.
Stromer, E. 1906 A, 215.
1908 B, 168.
Thorpe, M. R. 1923 A, 37.
Tomes, C. S. 1906 A, 55, fig. 22.
Trouessart, E. L. 1904 A, 166.
Wallace, A. R. 1876 A, I, 134.
Weber, M. 1904 A, 539 (Sinopa, Stypolophus).
Weber and Abel 1928 A, 339.
Winge, H. 1924 A, 179, 181, 182, 241, 246 (Stypolophus).
Winge and Miller 1921 A, 12 (Stypolophus).
Wood, H. E. 1927 A, 297.
Wortman, J. L. 1901 B, XII, 281, 285 (Stypolophus).
1902 A, XIII, 433, 434.
1903 A, XV, 431.
Zittel and Schlosser 1911 A, 380.
1923 A, 460, 667.

Sinopa aculeata (Cope).

Cope, E. D. 1872 NN, 1 (Triacodon).
Hay, O. P. 1902 A, 752 (Stypolophus).
Cope, E. D. 1872 PP, 1 (Triacodon).
Matthew, W. D. 1901 A, 24.
1909 D, 474.
Schlosser, M. 1904 B, 459 (Stypolophus).
Wortman, J. L. 1902 A, XIV, 20.

Sinopa grangeri Matthew.

Matthew, W. D. 1906 C, 206, pl. XVI; text-figs. 1-5, 7-20.
Drevermann, F. 1913 C, 200, fig. 2.
Gidley, J. W. 1918 A, 60.
Gregory, W. K. 1918 A, 6, fig. 3.
Matthew, W. D. 1909 C, 96.
1909 D, 470, 472.
1915 D, 72.
Schlosser, M. 1911 A, 79.
Middle Eocene (Bridger); Wyoming.

Sinopa hians (Cope).

Hay, O. P. 1902 A, 752 (Stypolophus).
Cope, E. D. 1875 Y, 444 (Stypolophus).
Matthew, W. D. 1901 A, 25.
1909 C, 93.
1909 D, 470.
1915 D, 72, 75, figs. 68-71.
Merrill, G. P. 1907 A, 58 (Prototomus); 61 (Stypolophus).
Reeside, J. B. 1924 A, 46.
Trouessart, E. L. 1904 A, 166.
Wortman, J. L. 1902 A, XIV, 20.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Sinopa? insectivora (Cope).

Cope, E. D. 1872 PP, 1 (Stypolophus).
Hay, O. P. 1902 A, 752 (Stypolophus).
Matthew, W. D. 1901 A, 24 (Sinopa?).
1909 D, 474 (Stypolophus).
Schlosser, M. 1904 B, 459 (Stypolophus).
Trouessart, E. L. 1904 A, 166.
Wortman, J. L. 1902 A, XIV, 20.
Middle Eocene (Bridger); Wyoming.

Sinopa major Wortman.

Wortman, J. L. 1902 A, XIV, 18, figs. 98, 99.
Matthew, W. D. 1906 C, 207, text-figs. 1, 2.

Matthew, W. D. 1909 C, 96.
1909 D, 470, 473, pl. xlv, fig. 4.
1915 D, 72.
Thorpe, M. R. 1923 A, 36.
Trouessart, E. L. 1904 A, 166.
Schlosser, M. 1904 B, 459.
1911 A, 76.
Middle Eocene (Bridger); Wyoming.

Sinopa minor Wortman.

Wortman, J. L. 1902 A, xiv, 17, figs. 96, 97.
Matthew, W. D. 1906 C, 207, text-figs. 1, 2.
1909 C, 96.
1909 D, 470, 473.
1915 D, 72.
Schlosser, M. 1904 B, 459.
Thorpe, M. R. 1923 A, 35.
Trouessart, E. L. 1904 A, 166.
Middle Eocene (Bridger); Wyoming.

Sinopa mordax Matthew.

Matthew, W. D. 1915 D, 72, 73, fig. 64.
Lower Eocene (Wasatch); Wyoming.

Sinopa multicuspis (Cope).

Hay, O. P. 1902 A, 752 (Stypolophus).
Gidley, J. W. 1926 E, 41.
Matthew, W. D. 1901 A, 27.
1909 C, 93.
1909 D, 470.
1915 D, 72, 80, figs. 72, 73.
Merrill, G. P. 1907 A, 58 (Prototomus); 61 (Stypolophus).
Reeside, J. B. 1924 A, 46.
Trouessart, E. L. 1904 A, 167.
Lower Eocene (Wasatch); New Mexico, Wyoming.

Sinopa opisthotoma Matthew.

Matthew, W. D. 1901 A, 28, text-fig. 9.
1909 C, 93.
1909 D, 470.
1915 D, 72, 73.
Trouessart, E. L. 1904 A, 167.
Wortman, J. L. 1902 A, xiv, 21.
Lower Eocene (Wasatch); Wyoming.

Sinopa pungens (Cope).

Cope, E. D. 1872 OO, 1 (Stypolophus).
Hay, O. P. 1902 A, 752 (Stypolophus).
Matthew, W. D. 1901 A, 24.
1906 C, 209, text-fig. 2.
1909 C, 96.
1909 D, 470, 472 (Stypolophus).
1915 D, 72.
Trouessart, E. L. 1904 A, 166 (Syn. of S. rapax).
Wortman, J. L. 1902 A, xiii, 125 (Syn. of S. rapax).
Middle Eocene (Bridger); Wyoming.

Sinopa rapax Leidy.

Hay, O. P. 1902 A, 752 (Stypolophus).
Abel, O. 1922 C, 281, 286, fig. 236.
Cope, E. D. 1872 OO, 1.
1884 O, 289 (Stypolophus vorax, *errore*).
Drevermann, F. 1913 C, 199, fig. 1.
Matthew, W. D. 1901 A, 23.
1905 B, 71.
1906 C, 206, text-figs. 1, 2.
1909 C, 96.
1909 D, 464, 470, 471, pl. xlv, figs. 1, 2; pl. xlvi, fig. 2; pl. xlvii, fig. 2; text-figs. 72, 73.
1915 D, 72.
Schlosser, M. 1904 B, 458.
Thorpe, M. R. 1923 A, 35.
Trouessart, E. L. 1904 A, 166.
Wortman, J. L. 1902 A, xiii, 435, figs. 83, 84; xiv, 17 (S. rapax); 18 (S. edax).
Middle Eocene (Bridger); Wyoming.

Sinopa rapax lania Matthew.

Matthew, W. D. 1909 D, 472, pl. xlv, fig. 3, pl. xlvii, fig. 1.
Upper Eocene (Washakie); Wyoming.

Sinopa secundaria (Cope).

Hay, O. P. 1902 A, 752 (Stypolophus).
Matthew, W. D. 1901 A, 27.
1909 D, 470.
1915 D, 71, 72, 82, fig. 77 (This species?).
Merrill, G. P. 1907 A, 58 (Prototomus); 61 (Stypolophus).
Trouessart, E. L. 1904 A, 167.
Lower Eocene (Wasatch); New Mexico.

Sinopa shoshoniensis Matthew.

Matthew, W. D. 1915 D, 72, 73, fig. 65.
Lower Eocene (Wasatch); Wyoming.

Sinopa strenua (Cope).

Hay, O. P. 1902 A, 752 (Stypolophus).
Matthew, W. D. 1901 A, 26.
1909 C, 93.
1909 D, 470.
1915 D, 72, 74, figs. 66, 67.
Merrill, G. P. 1907 A, 58 (Prototomus); 61 (Stypolophus).
Reeside, J. B. 1924 A, 46.
Simpson, G. G. 1928 J, 5, fig. 1.
Trouessart, E. L. 1904 A, 166.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Sinopa vera (Marsh).

Hay, O. P. 1902 A, 752 (Stypolophus).
Matthew, W. D. 1901 A, 23.
Wortman, J. L. 1901 B, xii, 200 (Triacodon grandis a syn.).
Middle Eocene (Bridger); Wyoming.

Sinopa viverrina (Cope).

Hay, O. P. 1902 A, 753 (Stypolophus).
Matthew, W. D. 1901 A, 27.
1909 C, 93.
1909 D, 470.
1915 D, 72, 83.
Merrill, G. P. 1907 A, 59 (Prototomus); 61 (Stypolophus).
Reeside, J. B. 1924 A, 46.
Seeley, H. G. 1886 A, 418.
Trouessart, E. L. 1904 A, 167.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Sinopa vulpecula Matthew.

Matthew, W. D. 1915 D, 72, 80, figs. 74-76.
Lower Eocene (Wasatch); Wyoming.

Sinopa sp. indet.

Matthew, W. D. 1909 C, 93. Lower Eocene (Wind River); Wyoming.

TRITEMNODON Matthew. Type *Limnocyon agilis* Marsh.

Matthew, W. D. 1906 C, 205, 207, 216.
Abel, O. 1922 C, 282.
Haug, E. 1911 A, 1528.
Leche, W. 1915 A, 350.
Lull, R. S. 1917 B, 553, fig. 176.
Matthew, W. D. 1908 C, 69.
1909 C, 100.
1909 D, 325-327, 464, 465, 467, 474, 476, 483.
1915 D, 71.
1928 B, 974, fig. 13.
Matthew and Granger 1924 B, 1.
Osborn, H. F. 1909 D, 41, 45.
1910 B, 31, 133, 161, 163, 527.
Schlosser, M. 1911 A, 79, 150.
Scott, W. B. 1913 A, 565, 566, 567, 633, figs. 279-281.
Thorpe, M. R. 1923 A, 37.
Winge, H. 1924 A, 179.
Zittel and Schlosser 1911 A, 380.
1923 A, 460.

Tritemnodon agilis (Marsh).

Hay, O. P. 1902 A, 752 (Stypolophus).
Abel, O. 1913 B, 714, fig. 15 (T. agile).
1919 A, 736, fig. 549 (Sinopa).
1922 C, 286, fig. 239.
Cope, E. D. 1872 PP, 1 (Stypolophus brevicolcarabus).
Lönnberg, E. 1910 B, 239, fig. 1.
1911 A, 61, fig.
Matthew, W. D. 1901 A, 24 (Stypolopus brevicalcaratus a syn.).
Matthew, W. D. 1905 B, 71 (Sinopa).
1906 C, 205, 207, text-figs. 1, 6.
1909 C, 96.
1909 D, 464, 475, pl. xlvi, fig. 1; text-figs. 74-90.
1915 D, 76.
1915 K, fig. 23.
Osborn, H. F. 1910 B, 163, fig. 62.
Schlosser, M. 1904 B, 458 (Sinopa agilis); 459 (Stypolophus gracilis).
Scott, W. B. 1913 A, 271, fig. 140.
Thorpe, M. R. 1923 A, 29, 36, 37.
Trouessart, E. L. 1904 A, 166 (Sinopa).
Wortman, J. L. 1902 A, xiii, 437, pls. ix, x; text-figs. 85-90, 92-95 (Sinopa agilis); xiv, 17, 18, 20 (S. gracilis).
Middle Eocene (Bridger); Wyoming.

Tritemnodon whitiæ (Cope).

Hay, O. P. 1902 A, 753 (Stypolophus whiteæ).
Fraas, E. 1904 A, 14 (Stypolophus).
Loomis, F. B. 1907 B, 356 (Stypolophus).
Matthew, W. D. 1901 A, 26 (Sinopa).
1906 C, 207, text-figs. 1, 2.
1909 C, 93.
1909 D, 470 (Tritemnodon?).
1915 D, 84.
Schlosser, M. 1911 A, 79.
Trouessart, E. L. 1904 A, 166 (Sinopa).
Wortman, J. L. 1902 A, xiv, 20 (Sinopa).
Lower Eocene (Wind River); Wyoming.

PROVIVERRA Rütimeyer. Type *P. typica* Rütimeyer.

Hay, O. P. 1902 A, 753.
Ameghino, F. 1902 D, 423.
Chardin, T. 1922 A, 59.
Cope, E. D. 1880 U, 152.
Matthew, W. D. 1901 A, 6, 20.
1906 C, 204, 205.
1909 D, 327, 466, 467.
Schlosser, M. 1898 J, 522.
Simpson, G. G. 1928 J, 8.
Stromer, E. 1908 B, 169.
Trouessart, E. L. 1904 A, 168.
Wortman, J. L. 1901 B, xii, 61, 285.
1902 A, xiii, 433.
1903 A, xv, 431.
Zittel and Schlosser 1911 A, 380, fig. 543.
1923 A, 460, 668, fig. 583.

Proviverra americana Scott.

Hay, O. P. 1902 A, 753.
Trouessart, E. L. 1904 A, 168.
Middle Eocene (Bridger); Wyoming.

TRIACODON Marsh. Type *T. fallax* Marsh.

Hay, O. P. 1902 A, 753.
Cope, E. D. 1872 PP, 1.
Matthew, W. D. 1901 A, 20.
1906 C, 204.
1909 D, 340.
Palmer, T. S. 1904 A, 687, 811.
Trouessart, E. L. 1904 A, 165, 171 (Syn. of Limnocyon).

A genus whose systematic position is at present indeterminable.

Triacodon fallax Marsh.

Hay, O. P. 1902 A, 753.
Cope, E. D. 1872 NN, 1 (T. fallox).
Matthew, W. D. 1909 D, 340.
Thorpe, M. R. 1923 A, 36 (Syn. of Sinopa minor).
Trouessart, E. L. 1904 A, 245 (Syn. ? of Viverravus gracilis).
Wortman, J. L. 1901 B, xii, 200, fig. 36 (Syn. of Viverravus gracilis).
Upper Eocene (Bridger); Wyoming.

Triacodon grandis Marsh.

Hay, O. P. 1902 A, 753.
Matthew, W. D. 1909 D, 341, 342.
Trouessart, E. L. 1904 A, 165 (Syn. of Limnocyon verus).
Wortman, J. L. 1901 B, xii, 200 (Syn.? of Limnocyon verus).
Middle Eocene (Bridger); Wyoming.

Triacodon nanus Marsh.

Hay, O. P. 1902 A, 753.
Matthew, W. D. 1909 D, 341, 342.
Thorpe, M. R. 1923 A, 28.
Wortman, J. L. 1901 B, xii, 200 (This genus?).
Middle Eocene (Bridger); Wyoming.

HYÆNODONTINÆ Matthew.

Matthew, W. D. 1909 D, 466.
Hay, O. P. 1902 A, 758.
Abel, O. 1914 A, 65, 66.
1919 A, 735.
Weber and Abel 1928 A, 339.
Zittel and Schlosser 1911 A, 380.
1923 A, 461.

HYÆNODON Laizer and Parieu. Type *H. leptorhynchus* Laizer and Parieu.

Hay, O. P. 1902 A, 758.
Abel, O. 1912 D, 602.
1914 A, 66.
1920 A, 422, fig. 637.
1921 A, 140, fig. 21.
1922 C, 278, 286, fig. 235.
Ameghino, F. 1885 A, 154.
1889 A, 1015.
1904 A, 27.
1904 C, 117.
1905 A, 1.
1905 C, 442.
1912 B, 177.
Andrews, C. W. 1906 A, xxii.
Bardenfleth, K. S. 1913 A, 107.
Beddard, F. E. 1902 A, 455.
Bensley, B. A. 1901 C, 252.
Bronn, H. G. 1848 A, 597.
1849 A, 721.
Cope, E. D. 1880 U, 151, 152, 156.
Douglass, E. 1905 A, 211.
Drevermann, F. 1913 C, 201, fig.
Frick, C. 1926 A, 40.
Gaudry, A. 1875 D, 1282.
Gervais, P. 1852 A, 127, explan. pls. xi, xxiv, xxv.
1859 A, 232.
Giebel, C. G. 1855 A, 24, pl. x.
Gregory, W. K. 1920 A, 14, 147, 239, figs. 77, 78.
Haug, E. 1911 A, 1528.
Hayden, F. V. 1871 A, 105, 107.
Heilprin, A. 1887 A, 393.
Hoernes, R. 1886 A, 658.
Huxley, T. H. 1880 D, 450.
Jepsen, G. L. 1926 A, 1.
Leche, W. 1915 A, 348.
Lemoine, V. 1889 A, 235.
Lobley, J. L. 1908 A, 211.
Lull, R. S. 1917 B, 553, fig. 176.
Lydekker, R. 1899 B, 925, pl. lxii, fig. 1.
1904 C, 63, fig. 5.
1910 F, 655.
Mackie, S. J. 1863 D, 336.
Major, C. J. F. 1880 A, 39.
Martin, R. 1906 A, 410, 458.
Matthew, W. D. 1901 A, 6, 19.
1901 B, 369, 370.
1905 B, 69.
1905 D, 25, 32, figs. 4, 7.
1906 C, 205, 216, text-fig. 6.
1908 C, 69.
1909 C, 103, 110.
1909 D, 315, 322, 324, 326, 327, 403, 464, 466, text-figs. 1, 3.
1915 K, 420.
1928 B, 971, 974, fig. 13.
Matthew and Granger 1924 A, 5.
1924 B, 1.
1925 D, 4.
Miller, G. S. 1923 A, 11.
O'Harra, C. C. 1910 A, 77, 78, 126, pl. xxiv.
1920 A, 78, pl. xxv.
Osborn, H. F. 1907 G, 136, figs. 91, 94, 96.
1907 K, 829 ("hyænodons").
1909 D, 59.
1910 B, 618, fig. 104.
1917 B, 241.
Owen, R. 1860 E, 339.
1868 A, 885.
Palmer, T. S. 1904 A, 323, 809.
Pompeckj, J. F. 1922 A, 51, 81.
Schlosser, M. 1898 B, 365.
1898 J, 517.
1902 J, 232.
1904 B, 459.
1911 A, 150, 166.
Scott, W. B. 1913 A, 562, 564-567, figs. 278-280.
Seeley, H. G. 1878 A, 222.
Sinclair, W. J. 1924 A, 103.
Stromer, E. 1902 A, 239.
1902 B, 554, 561.
1916 A, 403.
1926 A, 110.
Thorpe, M. R. 1922 B, 277, 280, 283.
1923 E, 241.
Tomes, C. S. 1906 A, 45, fig. 18.
Trouessart, E. L. 1904 A, 168.
Wallace, A. R. 1876 A, i, 118, 125, 134.
Weber, M. 1904 A, 381, 539.
Weber and Abel 1928 A, 308, 336, 339, fig. 206.
Winge, H. 1919 A, 59.
1924 A, 181, 219, 242, 246.
Winge and Miller 1921 A, 1.
Woodward, A. S. 1898 D, 331.
Wortman, J. L. 1901 B, xii, 281, 285.
1902 A, xiii, 433.
Zittel and Schlosser 1911 A, 381, fig. 540.
1923 A, 457, 460, 462, 668, figs. 579, 585.

Hyænodon crucians Leidy.

Hay, O. P. 1902 A, 758.
Cook, H. J. 1912 D, 35.
Lambe, L. M. 1908 A, 11, 60, pl. vii, figs. 4-6 (This species?).
Matthew, W. D. 1901 B, 357.
1909 C, 105.
O'Harra, C. C. 1920 A, 150.
Schlosser, M. 1898 J, 517.
Sinclair, W. J. 1924 A, 101, 103, 106.
Thorpe, M. R. 1922 B, 284, 286.
Wortman, J. L. 1902 A, xiii, 446, fig. 91 (Sinopa).
Middle Oligocene (Brule); Colorado, Nebraska.

Hyænodon cruentus Leidy.

Hay, O. P. 1902 A, 758.
Beddard, F. E. 1902 A, 455.
Cook, H. J. 1912 D, 35.
Darton and Siebenthal 1910 A, 11 (Hyracodon).
Lambe, L. M. 1908 A, 11, 59, pl. vii, figs. 1-3.
Matthew, W. D. 1901 B, 357, 380.
1909 C, 105.
1909 D, 464, text-figs. 72, 73.
Merrill, G. P. 1907 A, 41.
O'Harra, C. C. 1910 A, 78, fig. 11.
1920 A, 78, 150, fig. 22.
Schlosser, M. 1898 J, 517.
Sinclair, W. J. 1924 A, 101, 103, 106, fig. 1.
Thorpe, M. R. 1922 B, 283, 286.
Trouessart, E. L. 1904 A, 169.
Woodward, A. S. 1923 C, 25, fig. 7.
Middle Oligocene (Brule); Colorado, Nebraska, Wyoming.

Hyænodon leptocephalus Scott.

Hay, O. P. 1902 A, 759.
Beddard, F. E. 1902 A, 456.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1920 A, 151.
Schlosser, M. 1898 J, 517.
Sinclair, W. J. 1924 A, 104.
Stromer, E. 1926 A, 111.
Thorpe, M. R. 1922 B, 284, 286.
Middle Oligocene (Brule); South Dakota Nebraska?

Hyænodon montanus Douglass.

Douglass, E. 1901 B, 243, 253.
1903 A, 149.
Matthew, W. D. 1909 C, 105.
Thorpe, M. R. 1922 B, 284, 286.
Trouessart, E. L. 1904 A, 169.
Middle Oligocene (White River); Montana.

Hyænodon mustelinus Scott.

Hay, O. P. 1902 A, 759.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1920 A, 151.
Schlosser, M. 1898 J, 517.
Sinclair, W. J. 1924 A, 103.
Thorpe, M. R. 1922 B, 277, 286.
Trouessart, E. L. 1904 A, 169.
Middle Oligocene (Brule); South Dakota, Nebraska?.

Hyænodon paucidens Osborn and Wortman.

Hay, O. P. 1902 A, 759.
Cook, H. J. 1912 D, 35.
Gregory, W. K. 1920 A, 147, fig. 77.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1920 A, 150.
Schlosser, M. 1898 J, 517.
Sinclair, W. J. 1924 A, 103.
Thorpe, M. R. 1922 B, 277, 286.
Middle Oligocene (Brule); South Dakota, Nebraska?.

Hyænodon sp. indet.

Cook, H. J. 1912 D, 33. Oligocene (Chadron); Nebraska.
Matthew, W. D. 1909 C, 103. Oligocene (Lower).
Peterson, O. A. 1906 C, 33, fig. 6 (This genus?).
Wanless, H. R. 1923 A, 220. Oligocene (White River); Nebraska.

NEOHYÆNODON Thorpe. Type *Hyænodon horridus* Leidy.

Thorpe, M. R. 1922 B, 278, 285.

Neohyænodon horridus (Leidy).

Unless otherwise indicated the authors, as cited, use the generic name *Hyænodon*.

Hay, O. P. 1902 A, 758.
Ameghino, F. 1905 C, 442.
Cook, H. J. 1912 D, 35.
Giebel, C. G. 1883 A, pl. 1.
Gregory, W. K. 1920 A, 147, fig. 78.
Matthew, W. D. 1901 B, 357.
1909 C, 105.
Merrill, G. P. 1907 A, 41.
O'Harra, C. C. 1910 A, 77.
1920 A, 150.
Osborn, H. F. 1904 F, 12, 34.
1910 B, 189, fig. 81.
Schlosser, M. 1898 J, 517.
Scott, W. B. 1913 A, 563, fig. 277.
Sinclair, W. J. 1924 A, 101, 103.
Stromer, E. 1902 A, 265.
Thorpe, M. R. 1922 B, 278, 285, figs. 1, 2 (Neohyænodon).
Middle Oligocene (Brule); Colorado, S. Dakota, Nebraska.

HEMIPSALODON Cope. Type *H. grandis* Cope.

Hay, O. P. 1902 A, 759.
Haug, E. 1911 A, 1528.
Lambe, L. M. 1908 A, 61.
Matthew, W. D. 1901 A, 20 (=? Pterodon).
Osborn, H. F. 1910 B, 216, 527.
Palmer, T. S. 1904 A, 318, 809.
Schlosser, M. 1898 J, 522.
Scott, W. B. 1913 A, 565.

Zittel and Schlosser 1911 A, 380 (Syn. of Pterodon).
1923 A, 461 (Syn. of Pterodon).

Hemipsalodon grandis Cope.

Hay, O. P. 1902 A, 759.
Lambe, L. M. 1904 C, 29, 38, 52.
1905 D, 369 A, 371 A.
1908 A, 11, 61, pl. vii, figs. 7, 8.
1912 A, 12.
Matthew, W. D. 1909 C, 103, 110.
Zittel and Schlosser 1923 A, 462 (Pterodon).
Oligocene (Lower); Canada.

PTERODON Blainville. Type *Pterodon dasyuroides* Blainville.

Blainville, H. M. D. 1839, Ann. Franc. Étrang. Anat. Physiol., III, 23.
Abel, O. 1914 A, 66.
Ameghino, F. 1904 A, 8, 9, 25.
1906 A, 355, fig. 192.
Andrews, C. W. 1906 A, xxii, 219.
Bardenfleth, K. S. 1913 A, 99.
Depéret, C. 1907 A, 455.
Gervais, P. 1859 A, 236.
Hoernes, R. 1886 A, 658.
Leche, W. 1915 A, 350.
Lydekker, R. 1899 B, 925, pl. lxii, fig. 2.
Martin, R. 1906 A, 412, 430.
Matthew, W. D. 1905 B, 72.
1906 C, 205, 216, 217, text-fig. 6.
1908 C, 69.
1909 D, 464, 469.
1928 B, 971, 974, fig. 13.
Osborn, H. F. 1907 G, 137, figs. 94, 96.
Palmer, T. S. 1904 A, 595, 810.
Schlosser, M. 1887 B, 195.
1904 B, 459.
1910 A, 505.
1911 A.
Scott, W. B. 1913 A, 565, 566, figs. 279, 280.
Seeley, H. G. 1878 A, 222.
Weber and Abel 1928 A, 339.
Zittel and Schlosser 1911 A, 380 (Hemipsalodon a syn.).

This genus is introduced because *Hemipsalodon* may be a synonym of it.

PSEUDOPTERODON Schlosser. Type *P. ganodus* Schlosser.

Schlosser, M. 1887 B, 199, pl. v, figs. 9, 26, 29, 35, 36.
Matthew, W. D. 1903 B, 209.
1909 C, 103, 110.
Palmer, T. S. 1904 A, 592, 810.
Trouessart, E. L. 1904 A, 170.
Zittel and Schlosser 1911 A, 381.
1923 A, 462.

Pseudopterodon? minutus (Douglass).

Douglass, E. 1903 B, 242, 255 (Hyænodon).
1903 A, 149 (Hyænodon).
Matthew, W. D. 1903 B, 208, fig. 6 (This genus?).
1909 C, 103 (This genus?).
Trouessart, E. L. 1904 A, 170 (Pterodon).
Oligocene (Lower); Montana.

Superfamily MIACOIDÆ, Chardin.

Chardin, T. 1915 A, 111, 188.
Abel, O. 1912 D, 600 (Eucreodi).
1913 B, 714, 718 (Eucreodi).
1914 A, 63, 68 (Eucreodi).
1920 A, 421 (Eucreodi).
1922 C, 280 (Eucreodi).
Chardin, T. 1922 A, 87 (Eucreodi).
Gregory, W. K. 1920 A, 238 (Eucreodi).
Matthew, W. D. 1909 D, 327, 330 (Eucreodi).
1915 D, 5 (Eucreodi).
Osborn, H. F. 1910 B, 528 (Eucreodi).
Schlosser, M. 1921 A, 113 (Eucreodi).
Weber and Abel 1928 A, 337, 342 (Eucreodi).
Zittel and Schlosser 1911 A, 382 (Eucreodi).
1923 A, 462 (Eucreodi).

MIACIDÆ Cope.

Cope, E. D. 1880 C, 78.
Hay, O. P. 1902 A, 759 (Uintacyonidæ).
Abel, O. 1912 D, 600 ("miaciden").
1912 F, 501.
1913 B, 714.
1914 A, 63, 69.
1919 A, 738.
1921 A, 141 ("miaciden").
1922 C, 289 ("miaciden").
Arldt, T. 1907 D, 665.
1912 A, 702.
Carlson, A. 1921 A, 71.
1922 A, 30, 88 ("miacidés").
Gidley, J. W. 1915 B, 334.
Gregory, W. K. 1910 A, 308, 459.
1920 A, 148, 238.
Hilzheimer, M. 1913 A, 566.
Huene, F. 1927 D, 146 ("miaciden").
Matthew, W. D. 1909 C, 91, 93, 96, 98, 100.
1909 D, 564 (Miacidæ); 340 (Vulpavidæ a syn.).
1912 B, 184.
1914 B, 387.
1915 A, 217.
1915 D, 16.
1915 K, 445, 474.
1921 D, 212, 214.
1925 E, 751.
1928 B, 962, 971, 973, 980.
Matthew and Granger 1924 A, 6.
1925 D, 5.
Moodie, R. L. 1916 E, 141.
Osborn, H. F. 1909 D, 130.
1910 B, 623.
1925 C, 751.
Pohle, H. 1920 A, 49, 50, 61.
1924 A, 25 ("miaciden").

Scharff, R. F. 1911 A, 149, 151.
Schlosser, M. 1898 B, 361.
 1900 B, 303.
 1921 A, 113.
Scott, W. B. 1913 A, 685.
Seeley, H. G. 1886 A, 418.
Sokolowsky, A. 1919 A, 239.
Weber, M. 1904 A, 540.
Weber and Abel 1928 A, 328, 337.
Winge, H. 1924 A, 177, 182, 183, 242 (Amphictididæ, Miacididæ).
Zittel and Schlosser 1911 A, 383 (Miacis, Miocyon).
 1923 A, 462, 482, 665-668.

VIVERRAVINÆ Matthew.

Matthew, W. D. 1909 D, 340.
Hay, O. P. 1902 A, 754 (Viverravidæ).
Abel, O. 1913 B, 715.
 1919 A, 739.
 1922 C, 289.
Behlen, H. 1907 A, 274 ("viverraviden").
Lydekker, R. 1904 C, 62 (Viverravidæ).
Matthew, W. D. 1901 A, 1, 7, 8 (Viverravidæ).
 1905 D, 40 (Viverravidæ).
 1909 D, 330, 339 (Viverravidæ); 345, 348, 351, 352 (Viverravinæ).
 1915 D, 16.
Palmer, T. S. 1904 A, 776, 812 (Viverravidæ).
Pohle, H. 1920 A, 60, 61 (Viverravinæ); 61 (Viverravidæ).
 1924 A, 25.
Schlosser, M. 1902 A, 140 (Viverravidæ).
 1904 B, 449 (Viverravidæ).
Trouessart, E. L. 1904 A, 245 (Viverravidæ).
Weber and Abel 1928 A, 320, 337.
Wortman, J. L. 1901 B, XI, 338, 340; XII, 143, 197 (Viverravidæ).
Zittel and Schlosser 1911 A, 383.
 1923 A, 463.

DIDYMICTIS Cope. Type *D. protenus* Cope.

Hay, O. P. 1902 A, 754 (Viverravus, in part).
Abel, O. 1914 A, 62.
Ameghino, F. 1906 A, 284.
Behlen, H. 1907 A, 273.
Chardin, T. 1922 A, 59, 82.
Cope, E. D. 1875 Y, 444, 448.
Gregory, W. K. 1912 C, 189.
 1920 A, 239.
Haug, E. 1911 A, 1527.
Matthew, W. D. 1906 C, 216, text-fig. 6.
 1907 B, 534.
 1909 C, 100.
 1909 D, 327, 341, 342, 345, 353, 361, 402, text-fig. 3.
 1915 D, 4, 18, 19.
 1915 K, 421.
 1924 E, 749.
 1928 B, 954, 962, 972, 974, figs. 12, 13.
Osborn, H. F. 1907 G, 139, fig. 96.
 1909 D, 46.
 1910 B, 108, 111, 127, 134, 528.
 1912 G, 236, fig. 3.
 1919 B, 558.
Palmer, T. S. 1904 A, 230, 812.
Pohle, H. 1920 A, 48, 58, fig. 8.
Schlosser, M. 1898 B, 361.
 1901 K, 467.
 1916 A, 30.
Scott, W. B. 1913 A, 555, 558.
Seeley, H. G. 1886 A, 418.
Tomes, C. S. 1906 A, 56 (Didymictis).
Weber and Abel 1928 A, 337.
Winge, H. 1924 A, 177, 183, 242.
Wood, H. E. 1927 A, 299.
Zittel and Schlosser 1911 A, 383.
 1923 A, 463.

Didymictis altidens Cope.

Hay, O. P. 1902 A, 754 (Viverravus).
Loomis, F. B. 1907 B, 356 (Viverravus).
Matthew, W. D. 1901 A, 8 (Viverravus).
 1909 C, 93.
 1909 D, 341, 349, 361.
 1915 D, 20, 22, figs. 12, 16-19.
Osborn, H. F. 1909 D, 49.
Sinclair and Granger 1911 A, 91 (This species?).
Trouessart, E. L. 1904 A, 246 (Viverravus).
 Lower Eocene (Wasatch and Wind River); Wyoming.

Didymictis curtidens Cope.

Hay, O. P. 1902 A, 754 (Viverravus).
Matthew, W. D. 1909 D, 341.
Trouessart, E. L. 1904 A, 246 (Viverravus).
 Lower Eocene (Wasatch); Wyoming.

Didymictis haydenianus Cope.

Hay, O. P. 1902 A, 754 (Viverravus).
Gardner, J. H. 1910 A, 729.
Matthew, W. D. 1909 C, 91.
 1909 D, 341, 349, 361 (D. haydenianus); 341, 361 (D. primus a syn.).
 1914 B, 384.
 1915 D, 19, 20, fig. 12.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1900 B, 303.
Trouessart, E. L. 1904 A, 246 (Viverravus).
 Paleocene (Torrejon); New Mexico.

Didymictis leptomylus Cope.

Hay, O. P. 1902 A, 755 (Viverravus).
Loomis, F. B. 1907 B, 356 (Viverravus).
Matthew, W. D. 1901 A, 10 (Var. of Viverravus protenus).
 1909 C, 93.
 1909 D, 341, 349, 361.
 1914 B, 384 (This species?).
Reeside, J. B. 1924 A, 46.
Sinclair and Granger 1912 A, 60 (This species?).
Trouessart, E. L. 1904 A, 246 (Viverravus).
 Lower Eocene (Wasatch); New Mexico: (Wind River); Wyoming: Paleocene (Fort Union?); Wyoming.

Didymictis protenus Cope.

Hay, O. P. 1902 A, 755 (Viverravus).
Loomis, F. B. 1907 B, 356 (Viverravus).
Matthew, W. D. 1901 A, 9, figs. 1-5 (Viverravus).

Matthew, W. D. 1909 C, 93.
1909 D, 341-362, text-fig. 8.
1915 D, 20, 21, fig. 12.
Merrill, G. P. 1907 A, 34 (Didymictis); 44 (Limnocyon).
Reeside, J. B. 1924 A, 46 (D. pretenus).
Trouessart, E. L. 1904 A, 246 (Viverravus).
Lower Eocene (Wasatch); New Mexico, Wyoming.

Didymictis protenus lysitensis Matthew.

Matthew, W. D. 1915 D, 20, 21, figs. 13-15.
Lower Eocene (Wasatch); Wyoming.

Didymictis sp. indet.

Lull, R. S. 1915 D, 326. Paleocene (Fort Union); Montana.

VIVERRAVUS Marsh. Type *V. gracilis* Marsh.

Hay, O. P. 1902 A, 754.
Abel, O. 1922 C, 289.
Chardin, T. 1915 A, 111.
Gregory, W. K. 1910 A, 309, 311, 437.
Haug, E. 1911 A, 1528.
Lydekker, R. 1904 C, 62.
1910 F, 654.
Matthew, W. D. 1901 A, 8.
1909 C, 100.
1909 D, 323, 327, 342, 345, 353, 356, 358, 359, 388, text-fig. 2.
1915 D, 18, 27.
1921 H, 511.
1928 B, 962, 974, fig. 13.
Matthew and Granger 1924 B, 9, fig. 6.
Osborn, H. F. 1909 D, 46.
1910 B, 127, 134, 528.
1912 G, 236, fig. 3.
Palmer, T. S. 1904 A, 707, 812.
Pohle, H. 1920 A, 56.
Schlosser, M. 1902 A, 135.
1904 B, 449.
Trouessart, E. L. 1904 A, 245.
Weber and Abel 1928 A, 337.
Winge, H. 1924 A, 177, 183, 242.
Wortman, J. L. 1901 B, XII, 144.
1902 A, XIII, 46.
Zittel and Schlosser 1911 A, 383.
1923 A, 463, 667.

Viverravus acutus Matthew.

Matthew, W. D. 1915 D, 27, figs. 21, 22.
Lower Eocene (Wasatch); Wyoming.

Viverravus dawkinsianus (Cope).

Cope, E. D. 1881 D, 191 (Didymictis).
Hay, O. P. 1902 A, 754 (V. gracilis, in part).
Matthew, W. D. 1909 C, 93.
1909 D, 341, 349, 361.
1915 D, 28, fig. 20.
Osborn, H. F. 1909 D, 49.
Trouessart, E. L. 1904 A, 245 (Syn. of V. gracilis).
Lower Eocene (Wasatch and Wind River); Wyoming: (Huerfano); Colorado.

Viverravus gracilis Marsh.

Hay, O. P. 1902 A, 754 (V. gracilis); 761 (Harpalodon vulpinus).
Matthew, W. D. 1909 C, 96.
1909 D, 340, 341, 342, 349, 357 (V. gracilis); 342 (Harpalodon vulpinus).
Thorpe, M. R. 1923 A, 24 (V. gracilis, V. vulpinus).
Trouessart, E. L. 1904 A, 245.
Wortman, J. L. 1901 B, XII, 145, figs. 18-20; 200, 201, 283, 285 (Ziphacodon rugatus, Triacodon fallax, Harpalodon sylvestris, H. vulpinus as syns.).
Middle Eocene (Bridger); Wyoming.

Viverravus minutus Wortman.

Wortman, J. L. 1901 B, XII, 147, fig. 21.
Chardin, T. 1915 A, 113.
Gregory, W. K. 1920 A, 151.
Matthew, W. D. 1909 C, 96.
1909 D, 341, 349, 357, pl. xliii, fig. 1; text-figs. 9-12.
Schlosser, M. 1904 B, 449.
Thorpe, M. R. 1923 A, 25.
Trouessart, E. L. 1904 A, 245.
Zittel and Schlosser 1923 A, 463, fig. 586.
Middle Eocene (Bridger); Wyoming.

Viverravus nitidus Marsh.

Hay, O. P. 1902 A, 755.
Matthew, W. D. 1909 D, 341, 342.
Thorpe, M. R. 1923 A, 25 (This genus?).
Trouessart, E. L. 1904 A, 246.
Middle Eocene (Bridger); Wyoming.

Viverravus politus Matthew.

Matthew, W. D. 1915 D, 28, figs. 20, 23.
Lower Eocene (Wasatch); Wyoming.

Viverravus sicarius Matthew.

Matthew, W. D. 1909 D, 341, 347, 349, 360, text-figs. 8, 13, 14.
Thorpe, M. R. 1923 A, 25.
Middle Eocene (Bridger); Wyoming.

Viverravus sp. indet.

Matthew, W. D. 1909 C, 96. Middle Eocene (Bridger); Wyoming.

MIACINÆ Matthew.

Matthew, W. D. 1909 D, 345, 351.
Abel, O. 1913 B, 714.
1919 A, 739.
1920 A, 422.
1922 C, 289.
Matthew, W. D. 1915 D, 16.
Pohle, H. 1920 A, 61.
1924 A, 25, 29.
Weber and Abel 1928 A, 338.
Zittel and Schlosser 1911 A, 383.
1923 A, 463.

UINTACYON Leidy. Type *U. edax* Leidy.

Hay, O. P. 1902 A, 759.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1901 A, 7.
1902 C, 286 (Uintacyon, Prodaphænus).
1909 C, 93, 100.
1909 D, 327, 342, 344, 346, 353, 372, 402.
1915 D, 18, 29.
1928 B, 962.
Osborn, H. F. 1905 I, 101.
1910 B, 127, 528.
Palmer, T. S. 1904 A, 699, 812.
Pohle, H. 1920 A, 61.
Schlosser, M. 1902 A, 134, 138.
1904 B, 448 (Uintacyon, Prodaphænus).
Scott, W. B. 1913 A, 555, 558.
Trouessart, E. L. 1904 A, 216.
Wallace, A. R. 1876 A, I, 134.
Weber, M. 1904 A, 540, 541.
Winge, H. 1924 A, 177, 183, 242.
Wortman, J. L. 1901 A, 202.
1901 B, XI, 339, 445 (Uintacyon); 448, 449 (Prodaphænus).
1902 A, XIII, 46 (Uintacyon, Prodaphænus).
Zittel and Schlosser 1911 A, 383.
1923 A, 463.

Uintacyon acutus Thorpe.

Thorpe, M. R. 1923 B, 222, fig. 4.
Upper Eocene (Uinta); Utah.

Uintacyon bathygnathus (Scott).

Hay, O. P. 1902 A, 760.
Matthew, W. D. 1909 C, 96.
1909 D, 341, 349, 373 [U. (Miocyon)].
Schlosser, M. 1904 B, 449 (Miacis).
Trouessart, E. L. 1904 A, 216 (Syn. of U. vorax).
Middle Eocene (Bridger); Wyoming.

Uintacyon edax Leidy.

Hay, O. P. 1902 A, 760.
Matthew, W. D. 1909 C, 96.
1909 D, 341, 342, 349, 374.
Schlosser, M. 1904 B, 448.
Thorpe, M. R. 1923 A, 27.
Trouessart, E. L. 1904 A, 216.
Wortman, J. L. 1901 B, XI, 445, 450, figs. 12-15.
Middle Eocene (Bridger); Wyoming.

Uintacyon jugulans Matthew.

Matthew, W. D. 1909 D, 341, 349, 373, text-fig. 16.
Thorpe, M. R. 1923 A, 27.
Zittel and Schlosser 1911 A, 383.
1923 A, 463, fig. 587.
Middle Eocene (Bridger); Wyoming.

Uintacyon major Matthew.

Matthew, W. D. 1909 D, 341, 349, 375, 376, text-fig. 17.
Thorpe, M. R. 1923 A, 27, 28.
Middle Eocene (Bridger); Wyoming.

Uintacyon massetericus (Cope).

Hay, O. P. 1902 A, 755 (Viverravus).
Matthew, W. D. 1909 C, 93.
1909 D, 341, 361 (Didymictis); 349 (Uintacyon).
1915 D, 30, figs. 24, 25 (Didymictis).
Lower Eocene (Wasatch); Wyoming.

Uintacyon massetericus rudis Matthew.

Matthew, W. D. 1915 D, 31, fig. 26.
Lower Eocene (Wasatch); Wyoming.

Uintacyon scotti (Wortman and Matthew).

Hay, O. P. 1902 A, 760 (Prodaphænus).
Hatcher, J. B. 1902 F, 77, fig. 4 (Prodaphænus).
Matthew, W. D. 1909 C, 98.
1909 D, 341, 343.
Schlosser, M. 1902 A, 135 (Prodaphænus).
1902 J, 153 (Prodaphænus).
Thorpe, M. R. 1923 A, 28.
Trouessart, E. L. 1904 A, 217 (Prodaphænus).
Wortman, J. L. 1901 A, 202 (Prodaphænus).
1901 B, XI, 450, fig. 17 (Prodaphænus).
Upper Eocene (Uinta); Wyoming.

Uintacyon vorax Leidy.

Hay, O. P. 1902 A, 760.
Matthew, W. D. 1909 C, 96.
1909 D, 341, 342, 349, 374, pl. xlvii, fig. 2.
1915 D, 32 (This species?).
Schlosser, M. 1904 B, 449.
Thorpe, M. R. 1923 A, 27.
Trouessart, E. L. 1904 A, 216.
Wortman, J. L. 1901 B, XI, 448, fig. 16.
Middle Eocene (Bridger); Wyoming.

Uintacyon sp. indet.

Matthew, W. D. 1909 C, 96. Middle Eocene (Bridger); Wyoming.

MIACIS Cope. Type *M. parvivorus* Cope.

Cope, E. D. 1872 PP, 2.
Hay, O. P. 1902 A, 760 (Prodaphænus); 761 (Vulpavus, in part; Harpalodon).
Adloff, P. 1903 A, 362, fig. 4.
Ameghino, F. 1902 D, 423 (Myacis).
Behlen, H. 1907 A, 273.
Chardin, T. 1915 A, 111.
Granger, W. 1909 A, 22.
Gregory, W. K. 1920 A, 239.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 393.
Lavocat, A. 1896 A, 26.
Lemoine, V. 1889 A, 237.
Matthew, W. D. 1909 C, 100.
1909 D, 564 (Miacis); 343, 362 (Neovulpavus, a syn.); 341, 349 (Miocyon, subg.); 346 (Lycarion, subg.); 342, 346, 353, 362 (Harpalodon, subg.); 327, 341, 343, 353, 362 (Prodaphænus).
1915 D, 18, 32, fig. 27.
1921 H, 511.
1924 C, 122, 128, 748 (Miacis, Prodaphænus).
1928 B, 962, 972, 974, figs. 12, 13.

Osborn, H. F. 1905 I, 101 (Prodaphænus).
1907 G, 50, figs. 38, 43.
1909 D, 46.
1910 B, 127, 134, 170, 528.
1912 G, 236, fig. 3.
Palmer, T. S. 1904 A, 420, 812 (Miacis); 311, 812 (Harpalodon); 568, 812 (Prodaphænus).
Pohle, H. 1920 A, 48.
1924 A, 27.
Scott, W. B. 1913 A, 555, 558.
Seeley, H. G. 1886 A, 418.
Weber and Abel 1928 A, 337, 340.
Winge, H. 1924 A, 177, 183, 242.
Zittel and Schlosser 1911 A, 383.
1923 A, 463, 667 (Miacis; Myocyon syn. of Uintacyon).

Miacis exiguus Matthew.

Matthew, W. D. 1915 D, 33, figs. 27-29.
Lower Eocene (Wasatch); Wyoming.

Miacis hargeri (Wortman).

Wortman, J. L. 1901 B, xi, 342, 347, figs. 2-11 (Vulpavus).
Ameghino, F. 1906 B, 14 (Vulpavus).
Matthew, W. D. 1909 C, 96.
1909 D, 341, 343, 349, 364, 369, text-fig. 15 [M. (Lycarion)].
Schlosser, M. 1904 B, 447 (Vulpavus).
Thorpe, M. R. 1923 A, 26 [M. (Lycarion)].
Trouessart, E. L. 1904 A, 216 (Vulpavus).
Middle Eocene (Bridger); Wyoming.

Miacis latidens Matthew.

Matthew, W. D. 1915 D, 34, figs. 27, 30.
Lower Eocene (Wind River); Wyoming.

Miacis medius Matthew.

Matthew, W. D. 1909 D, 341, 349, 364, 370, text-fig. 15 [M. (Lycarion)].
1924 C, 128.
Middle Eocene (Lower Washakie); Wyoming.

Miacis parvivorus Cope.

Cope, E. D. 1872 PP, 2.
Hay, O. P. 1902 A, 761 (Vulpavus).
Matthew, W. D. 1909 C, 96.
1909 D, 365, 572, fig. 15.
Matthew and Granger 1925 D, 5.
Schlosser, M. 1902 A, 136 (Vulpavus).
Thorpe, M. R. 1923 A, 26.
Trouessart, E. L. 1904 A, 216 (Vulpavus).
Wortman, J. L. 1901 B, xi, 444 (Vulpavus).
Lower Eocene (Bridger); Wyoming.

Miacis robustus Peterson.

Peterson, O. A. 1919 A, 50, pl. xxxiv, figs. 3-5 (Prodaphænus?).
Upper Eocene (Uinta); Utah.

Miacis sylvestris (Marsh).

Hay, O. P. 1902 A, 761 (Harpalodon).
Matthew, W. D. 1909 C, 96.
1909 D, 341, 349, 364, 370, text-fig. 15.
1924 C, 128.
Thorpe, M. R. 1923 A, 26 [M. (Harpalodon)].
Wortman, J. L. 1901 B, xii, 201, fig. 38 (Harpalodon).
Middle Eocene (Bridger); Wyoming.

Miacis uintensis Osborn.

Hay, O. P. 1902 A, 760 (Prodaphænus).
Matthew, W. D. 1909 C, 98.
1909 D, 341, 371.
Thorpe, M. R. 1923 B, 220.
Upper Eocene (Uinta); Utah.

Miacis vulpinus (Scott and Osborn).

Hay, O. P. 1902 A, 760 (Uintacyon).
Matthew, W. D. 1909 C, 986.
1909 D, 349, 372 (Miacis); 241, 372 (Amphicyon).
Peterson, O. A. 1919 A, 48.
Upper Eocene (Uinta); Utah.

Miacis washakius (Wortman).

Wortman, J. L. 1901 B, xi, 445 (Neovulpavus).
Matthew, W. D. 1909 C, 96 (Miacis).
1909 D, 341, 343, 370 (Neovulpavus); 341, 343, 349, 364, 370, text-fig. 15 (Miacis).
Trouessart, E. L. 1904 A, 216 (Neovulpavus).
Wortman and Matthew 1899 A, 110, figs. 4-6 (Vulpavus palustris; not of Marsh).
Eocene (Washakie); Wyoming.

Miacis sp. indet.

Matthew, W. D. 1909 C, 93, 96. Eocene (Wasatch, Wind River, Bridger); Wyoming.
1909 D, 349.

MIMOCYON Peterson. Type *M. longipes* Peterson.

Peterson, O. A. 1919 A, 48.
Matthew and Granger 1925 D, 5 (Miacis).

Mimocyon longipes Peterson.

Peterson, O. A. 1919 A, 48, pl. xxxiv, figs. 6-10.
Matthew and Granger 1925 D, 5 (Miacis).
Upper Eocene (Uinta); Utah.

VASSACYON Matthew. Type *Uintacyon promicrodon* (Wortman and Matthew).

Matthew, W. D. 1909 C, 93, 100.
Gregory, W. K. 1920 A, 239.
Matthew, W. D. 1909 D, 327, 341, 343, 346, 347, 376.
1915 D, 17, 18, 39, fig. 40.
1928 B, 962.
Pohle, H. 1920 A, 61.
Winge, H. 1924 A, 177, 183, 242.
Zittel and Schlosser 1911 A, 383.
1923 A, 463.

Vassacyon promicrodon (Wortman and Matthew).

Hay, O. P. 1902 A, 760 (Uintacyon).
Matthew, W. D. 1909 C, 93.
1909 D, 341, 346, 347, 349, 373, 376, pl. xliii, fig. 4; text-fig. 8.
1915 D, 41, figs. 34-39.
Trouessart, E. L. 1904 A, 217 (Prodaphænus).
Lower Eocene (Wasatch); Wyoming.

OÖDECTES Wortman. Type *O. herpestoides* Wortman.

Wortman, J. L. 1901 B, XII, 148.
Chardin, T. 1915 A, 113.
Haug, E. 1911 A, 1528.
Lydekker, R. 1904 C, 62.
Matthew, W. D. 1909 C, 100.
1909 D, 573.
1915 D, 18.
Osborn, H. F. 1909 D, 46, 52.
1910 B, 131, 134, 528.
Palmer, T. S. 1904 A, 476, 840.
Peterson, O. A. 1919 A, 54.
Pohle, H. 1920 A, 61.
Schlosser, M. 1910 A, 506.
Scott, W. B. 1913 A, 558.
Winge, H. 1924 A, 177, 183, 242.
Wortman, J. L. 1902 A, XIII, 46.
Zittel and Schlosser 1911 A, 384.
1923 A, 464, 667.

Oödectes herpestoides Wortman.

Wortman, J. L. 1901 B, XII, 148, 193, figs. 22-35.
Matthew, W. D. 1909 C, 96.
1909 D, 341, 349, 377.
Schlosser, M. 1904 B, 451.
Thorpe, M. R. 1923 A, 28.
Trouessart, E. L. 1904 A, 246.
Middle Eocene (Bridger); Wyoming.

Oödectes proximus Matthew.

Matthew, W. D. 1909 D, 341, 347, 349, 378, text-figs. 8, 18-22.
Middle Eocene (Bridger); Wyoming.

Oödectes pugnax (Wortman and Matthew).

Hay, O. P. 1902 A, 760 (Uintacyon).
Matthew, W. D. 1909 C, 96 (This genus?).
1909 D, 341, 349, 377.
Schlosser, M. 1904 B, 449 (Uintacyon).
Trouessart, E. L. 1904 A, 216 (Uintacyon).
Wortman, J. L. 1901 B, XI, 448 (Uintacyon).
Middle Eocene (Bridger); Wyoming.

Oödectes sp. indet.

Matthew, W. D. 1909 C, 93, 96. Eocene (Wind River, Bridger); Wyoming.
1909 D, 349.

PLEUROCYON Peterson. Type *P. magnus* Peterson.

Peterson, O. A. 1919 A, 52.

Pleurocyon magnus Peterson.

Peterson, O. A. 1919 A, 52, pl. xxxv.
Upper Eocene (Uinta); Utah.

Pleurocyon medius Peterson.

Peterson, O. A. 1919 A, 59.
Upper Eocene (Uinta); Utah.

VULPAVUS Marsh. Type *V. palustris* Marsh.

Hay, O. P. 1902 A, 761.
Ameghino, F. 1906 B, 14.
Chardin, T. 1922 A, 56 (Vulpavus, Phlaodectes).
Gregory, W. K. 1920 A, 149, 239, fig. 79.
Haug, E. 1911 A, 1528.
Kraglievich, L. 1925 A, 191.
Lydekker, R. 1904 C, 62, fig. 3.
Matthew, W. D. 1901 A, 7.
1909 C, 100.
1909 D, 318, 323, 324, 325, 340, 346, 347, 379, 382, 385, 390, 394, 399, 402, text-figs. 2-4.
1915 D, 18, 36.
1924 E, 748.
1928 B, 962, 974, fig. 13.
Osborn, H. F. 1905 I, 101.
1907 G, 89.
1909 D, 46, 52.
1910 B, 127, 134, 528.
1912 G, 236, fig. 3.
Peterson, O. A. 1919 A, 54.
Pohle, H. 1920 A, 58, fig. 8.
1924 A, 29.
Schlosser, M. 1902 A, 134.
1904 B, 447, 449.
Scott, W. B. 1913 A, 555, 558.
Trouessart, E. L. 1904 A, 215.
Weber, M. 1904 A, 540, 541.
Weber and Abel 1928 A, 336, 338.
Winge, H. 1924 A, 177, 183, 242.
Wortman, J. L. 1901 B, XI, 339, 341, 437, 442.
1902 A, XIII, 46.
Zittel and Schlosser 1911 A, 384.
1923 A, 464, 667.

Vulpavus australis Matthew.

Matthew, W. D. 1915 D, 39, figs. 31, 33.
Lower Eocene (Wasatch); New Mexico.

Vulpavus canavus (Cope).

Hay, O. P. 1902 A, 760 (Uintacyon canavus, U. brevirostris).
Matthew, W. D. 1909 C, 93 (V. canavus, V. brevirostris).
1909 D, 341, 349 (Miacis canavus, M. brevirostris).
1915 D, 37, figs. 31, 32 (Miacis brevirostris a syn.).
Trouessart, E. L. 1904 A, 216 (Uintacyon brevirostris); 217 (Prodaphænus).
Wortman, J. L. 1901 B, XI, 448 (Uintacyon brevirostris); 450 (Prodaphænus canavus).
Lower Eocene (Wind River, Big Horn); Wyoming.

Vulpavus completus Matthew.

Matthew, W. D. 1909 D, 341, 349, 398.
Middle Eocene (Bridger); Wyoming.

Vulpavus ovatus Matthew.

Matthew, W. D. 1909 D, 341, 349, 391, pl. xliii, fig. 3; text-figs. 32-41 [V. (Phlaodectes)].
Middle Eocene (Bridger); Wyoming.

Vulpavus palustris Marsh.

Hay, O. P. 1902 A, 761.
Matthew, W. D. 1909 C, 96.
1909 D, 340, 341, 349, 370, 380.
Schlosser, M. 1902 A, 135.
1904 B, 447.
Thorpe, M. R. 1923 A, 28.
Trouessart, E. L. 1904 A, 215.
Wortman, J. L. 1901 B, xi, 341, fig. 1.
Wortman and Matthew 1899 A, 118 (Not of Marsh).
Middle Eocene (Bridger); Wyoming.

Vulpavus profectus Matthew.

Matthew, W. D. 1909 D, 341, 347, 349, 382, pl. xliii, fig. 2; pl. xlvii, fig. 2; text-figs. 23-31.
Abel, O. 1913 B, 715, fig. 19.
1920 A, 422, fig. 638.
1922 C, 289, fig. 243.
Lydekker, R. 1910 F, 654, fig. 1.
Peterson, O. A. 1919 A, 58.
Pohle, H. 1920 A, 55, 59, fig. 6.
1924 A, 30.
Weber and Abel 1928 A, 338, fig. 205.
Middle Eocene (Bridger); Wyoming.

Vulpavus sp. indet.

Matthew, W. D. 1909 C, 93, 96. Lower Eocene (Wasatch); New Mexico.
1909 D, 349. Middle Eocene (Bridger); Wyoming.
Reeside, J. B. 1924 A, 46. Lower Eocene (Wasatch); New Mexico.

Palæarctonyx Matthew. Type *M. meadi* Matthew.

Matthew, W. D. 1909 D, 327, 341, 343, 344, 346, 348, 353, 399, 402.
Chardin, T. 1922 A, 56.
Matthew, W. D. 1915 D, 18.
1928 B, 975.
Pohle, H. 1920 A, 59.
Zittel and Schlosser 1911 A, 384.
1923 A, 464.

Palæarctonyx meadi Matthew.

Matthew, W. D. 1909 D, 346, 349, 402, text-figs. 42-46.
Middle Miocene (Bridger); Wyoming.

Ziphacodon Marsh. Type *Z. rugatus* Marsh.

Hay, O. P. 1902 A, 761.
Matthew, W. D. 1909 D, 342.
Palmer, T. S. 1904 A, 715, 812.
Trouessart, E. L. 1904 A, 171 (Syn. of Viverravus).
The position of this genus is at present indeterminable.

Ziphacodon rugatus Marsh.

Hay, O. P. 1902 A, 761.
Matthew, W. D. 1909 D, 341, 342.
Thorpe, M. R. 1923 A, 39.
Trouessart, E. L. 1904 A, 245 (Syn. of Viverravus gracilis).
Wortman, J. L. 1901 B, xii, 200, fig. 37 (Syn. of Viverravus gracilis).
Middle Eocene (Bridger); Wyoming.

CREOTARSIDÆ, new family.

The position of this family is not determined.

Creotarsus Matthew. Type *C. lepidus* Matthew.

Matthew, W. D. 1918 H, 611.

Creotarsus lepidus Matthew.

Matthew, W. D. 1918 H, 613, figs. 35, 36.
Lower Eocene (Grey Bull); Wyoming.

Suborder Fissipeda Fischer de Waldheim.

Fischer de Waldheim, G. 1813, Geognosia, ii, 454.
Unless otherwise indicated the authors, as cited, spell this name Fissipedia.
Hay, O. P. 1902 A, 762.
Abel, O. 1904 A, 183 ("fissipedier").
1912 D, 599 ("fissipedier").
1912 F, 174 ("fissipedier").
1913 B, 712, 715, 718.
1913 C, 199.
1914 A, 70.
1920 A, 421 ("fissipedier").
1921 A, 141.
Arldt, T. 1907 D, 654.
Beddard, F. E. 1902 A, 387.
Bonaparte, C. L. 1832 A, 292 (Fissipedes).
Case, E. C. 1899 B, 180 (Fissipeda).
Cope, E. D. 1891 N, 75, 90.
Cuvier, G. 1825 A, iv, 227-483, pls. xiii-xxxviii ("carnassiers").
Doran, A. H. G. 1878 A, 390.
Fischer, J. B. 1829 A, 141 (Feræ).
Gaupp, E. 1913 A, 125 ("fissipedier").
Gregory, W. K. 1910 A, 309, 465 (Crassidentia=Fissipedia+Miacidæ).
1920 A, 148, 238.
Hay, O. P. 1912 D, 769.
1914 A, 474.
Hilzheimer, M. 1913 A, 566.
Hogben, L. T. 1919 A, 74.
Kampfen, P. N. 1905 A, 539.
Lull, R. S. 1917 B, 562.

Matthew, W. D. 1905 D, 36.
1907 B, 535.
1909 C, 99, 103, 105, 106, 107-110.
1909 D, 317, 354, 355, 411, 551.
1912 B, 184.
1915 A, 217.
1915 D, 4 (Feræ).
Osborn, H. F. 1907 G, 12, 131, 142.
1909 D, 33.
1925 C, 751.
Owen, R. 1857 E (Digitigrada, Plantigrada).
1858 A, 31 (Digitigrades, Plantigrades).
Pohle, H. 1920 A, 57.
Reynolds, S. H. 1897 A, 368.
Schlosser, M. 1897 B, 19.
1904 B, 447 (Carnassidentata).
Schwarz, E. 1912 B, 4 (Carnivora vera).
Scott, W. B. 1913 A, 681.
1917 A, 32.
Steinmann, G. 1907 A, 470.
Stromer, E. 1916 A, 404.
Terra, P. 1911 A, 280.
Trouessart, E. L. 1904 A, 177 (Carnivora).
Weber, M. 1886 A, 231.
1904 A, 515.
Weber and Abel 1928 A, 301, 335.
Weber and Burlet 1927 A, xv.
Winge, H. 1924 A, 177 (Carnivora vera).
Woodward, A. S. 1923 C, 21 (Carnivora vera).
Wortman, J. L. 1901 B, xi, 337, 338; xii, 281 (Carnassidentia).
1902 A, xiv, 144 (Carnassidentia).
Zittel and Schlosser 1911 A, 384.
1923 A, 464, 482.

Superfamily URSOIDÆ, new form.

Unless otherwise indicated, the authors, as cited, employ for this superfamily the name Arctoidea.

Hay, O. P. 1902 A, 762 (Arctoidea); 769 (Cynoidea).
Abel, O. 1912 F, 500.
1913 B, 716.
1913 C, 199.
1914 A, 63, 70.
1919 A, 743.
1920 A, 422.
1922 C, 289.
Anderson, R. J. 1902 B, 368 ("arctoids").
Beddard, F. E. 1902 A, 424.
Brown, A. E. 1904 B, 90.
Gill, T. 1872 B, 58.
Gregory, W. K. 1910 A, 100.
1920 A, 239.
Hilzheimer, M. 1913 A, 566.
Jaekel, O. 1911 A, 229 (Urso-Canidi).
Kükenthal, W. 1913 A, 501.
Lockington, W. N. 1884 A, 431.
Matthew, W. D. 1909 C, 316, 330 (Arctoidea); 345 (Cynoidei).
1915 K, 445.
Moodie, R. L. 1922 C, 359 (Cynoidea).
Osborn, H. F. 1910 B, 528.
Pohle, H. 1920 A, 57.
Puccioni, N. 1908 A, 41 (Cynoidea).
Rehs, J. 1914 A, 56.
Reynolds, S. H. 1897 A, 369, 437, 438 (Cynoidea, Arctoidea).
Schwarz, E. 1912 B, 3 (Arctoidea, Cynoidea).
Scott, W. B. 1896 D, 54 (Cynoidea, Arctoidea).
Stromer, E. 1902 A, 230.
Weber, M. 1904 A, 528, 533.
Weber and Abel 1928 A, 318, 324, 329, 342 (Arctoidea).
Weber and Burlet 1927 A, xv (Arctoidea).
Winge, H. 1896 A, 126 (Arctoidei).
1924 A, 177, 192, 197 (Arctoidea).

CANIDÆ Gray.

Gray, J. E. 1821 A, 301.
Hay, O. P. 1902 A, 769.
Abel, O. 1912 F, 501.
1913 B, 717.
1914 A, 78.
1919 A, 747.
Ameghino, F. 1889 A, 1007.
1902 D, 423 ("canidés").
1905 A, 8.
1906 B, 9.
1912 B, 177 ("canidés").
Anderson, R. J. 1901 A, 682.
Anthony, R. 1912 A.
Arldt, T. 1907 B, 449 ("caniden").
1907 D, 643.
1912 A, 702.
Baird, S. F. 1876 A, ccviii ("dogs").
Bardenfleth, K. S. 1913 A, 86.
Bateson, W. 1892 A, 105.
Bayer, F. 1897 A, 147.
Beddard, F. E. 1902 A, 413.
Behlen, H. 1907 A ("caniden").
Birula, A. A. 1913 A, 240.
Black, D. 1915 A, 353.
Bluntschli, H. 1912 B, 362 ("caniden").
Boas, J. E. V. 1909 A, 529 ("caniden").
1914 B, 579 ("caniden").
Bonaparte, C. L. 1832 A, 287 (Canina).
Brandt and Woldrich 1887 A, 38 (Canina).
Carlsson, A. 1914 A, 228.
Carus, V. 1875 A, 123 (Canida).
Case, E. C. 1899 B, 180.
Chandler, A. C. 1914 B, 134.
Cleland, J. 1863 B, 297 ("dogs").
Cope, E. D. 1891 N, 76 ("dogs").
Cuvier, F. 1807 A, 126 ("chiens").
1825 A, 95 ("chiens").
Depéret, C. 1906 A, 618 ("canidés").
1907 B ("canidés").
1908 A, 307.
1912 A, 708 ("canidés").
Doran, A. H. G. 1878 A, 394, 406.
Dubois, E. 1922 A, 320 ("caniden").
Eaton, J. E. 1928 A, 133 ("wolves").
Elliot, D. G. 1901 A, 299.
Filhol, H. 1889 A, 222 ("canidés").
Frassetto, F. 1903 A, 220, 234.
Geoffroy St.-Hilaire, E. F. 1824 H, 263 ("chiens").
Gervais, P. 1859 A, 211 ("canidés").

Ghigi, A. 1900 B, 99 ("cani").
Gidley, J. W. 1913 B, 99, figs. 4-8 ("canids").
Giebel, C. G. 1883 A ("caninen").
Grant, M. 1904 B, 194, 205.
Gregory, W. K. 1914 E, 526.
1927 A, 601 ("dogs").
Grevé, C. 1891 A, 400 ("caniden").
Hay, O. P. 1912 D, 776.
1914 A, 483.
1923 A, 312.
1927 E, 77 ("dogs").
Hilzheimer, M. 1905 A ("caniden").
Hoernes, R. 1886 A, 694.
Hoever, R. 1911 A, 81 ("caniden").
Hrdlička, A., 1903 A, 372.
Huxley, T. H. 1880 C, 4.
1880 D, 404.
1880 F, 162.
Ihering, H. 1909 A, 285 ("hunde").
1910 A, 136.
Jaeger, G. F. 1842 A, 435 ("hunde").
Kampfen, P. N. 1905 A, 520.
Köstlin, O. 1844 A ("hunde").
Koken, E. 1901 B, 220 ("caniden").
Laloy, L. 1907 A, 587 ("canidés").
Leche, W. 1897 A.
Leunis and Ludwig 1883 A, 187.
Lobley, J. L. 1908 A, 194, 200, 204.
Lockington, W. N. 1884 A, 408 (Cynoidea, Canidæ).
Lönnberg, E. 1916 A, 3.
Lull, R. S. 1904 C, 3.
1917 B, 563.
Lydekker, R. 1903 D, 124.
1910 E, 352 ("wolves").
Martins, C. 1857 A, 68 ("chiens").
Matthew, W. D. 1901 A, 7, 18.
1902 C, 284.
1903 D, 912.
1905 D, 39.
1907 A, 179, 180, 187, 199.
1909 C, 123.
1909 D, 330, 353, 354.
1910 G, 158.
1912 B, 185.
1913 B, 291.
1914 G, 234, fig. 9.
1915 A, 187, 217, 218, 219.
1915 K, 445, fig. 17.
1918 A, 189, 194.
1924 C, 118, 121, 122, fig. 28.
1924 E, 745.
1928 B, 973, 974, fig. 13.
Matthew and Granger 1924 A, 6.
Mead, C. S. 1906 A, 481.
Meckel, J. F. 1825 A ("hunde").
Merriam, J. C. 1903 B, 277.
1906 A, 36, 64.
Miller, G. S. 1912 B, 77.
1924 C, 143.
Moodie, R. L. 1916 E, 141.
Nehring, A. 1890 A, 34 ("caniden").
Neuville, H. 1915 A, 7 ("canidés").
Noack, T. 1907 A, 660 ("hunde").
1910 A, 457 ("füchse, wölfe").
O'Harra, C. C. 1910 A, 78.
O'Harra, C. C. 1920 A, 78.
Osborn, H. F. 1902 A, 87 ("dogs").
1905 H, 218.
1905 I, 101.
1909 D, 123.
1910 B, 609.
Owen, R. 1868 A, 869.
Pictet, F. J. 1853 A, 202, pl. iii, fig. 12 ("chiens").
Pocock, R. I. 1914 B, 913.
1916 F, 262.
Pohl, L. 1909 A, 382 ("caniden").
Puccioni, N. 1908 A, 49 ("cani").
Rehs, J. 1914 A, 56.
Reynolds, S. H. 1897 A, 539 (Canidæ, "dog").
1909 A, 1, pls. i-vi.
1910 A, 507.
Scharff, R. F. 1911 A, 149.
Schlegel, R. 1912 A, 1-29 ("caniden").
Schlosser, M. 1897 B, 18 ("caniden").
1902 A, 134.
1902 B, 297.
1902 J, 257.
1903 I, 26, 219 ("caniden").
1904 B, 447 ("caniden").
Schmidt, O. 1886 A, 259.
Schwarz, E. 1924 A, 420 ("dogs").
Sclater, P. L. 1875 A, 207.
Scott, W. B. 1896 D, 54 ("dogs").
1913 A, 517, 518, 520, 527, 677.
1917 A, 32.
Seeley, H. G. 1886 A, 516.
Seton, E. T. 1909 A, 700.
Strecker, C. 1887 A, 317 ("canisarten").
Stromer, E. 1902 B, 554 ("caniden").
1906 A, 216.
Studer, T. 1901 A ("hunderassen").
1906 A, 23.
Taets, W. 1913 A, 5-178 ("hunde").
Taschenberg, O. 1899 A, 4492.
Terra, P. 1911 A, 284.
Tims, H. W. M. 1901 A, 282.
1902 A, 336.
1905 B, 1786.
Tornier, G. 1888 A, 255 ("caniden").
1891 A, 122 ("caniden").
1894 B, 104 ("caniden").
Trouessart, E. L. 1904 A, 215.
Vicq-d'Azyr, F. 1792 A, cvi (Canini).
Virchow, H. 1917 B, 323 ("caniden").
Wagner, R. 1843 A ("hunde").
Wallace, A. R. 1876 A, I, 118, 125, 134, 267; II, 197.
1894 A, 435.
Weber, M. 1904 A, 533.
Weber and Abel 1928 A, 307, 318, 324.
Wiegmann, F. R. 1838 B, 261, 286 ("hunde").
Williston, S. W. 1910 G, 596 ("dogs").
Windle, B. C. A. 1890 A, 5.
Winge, H. 1924 A, 177, 192, 197 (Canini).
Woodward, A. S. 1898 D, 336.
Wortman, J. L. 1901 A, 201.
1901 B, XI, 338, 343.
Zittel and Schlosser 1911 A, 386.
1923 A, 466, 482.

CYNODICTINÆ Schlosser.

Schlosser, M. 1911, in Zittel and Schlosser 1911 A, 386 (Cynodictinæ); 389 (Cynodontinæ).
Weber and Abel 1928 A, 328.
Zittel and Schlosser 1923 A, 466, 670 (Cynodictinæ); 469 (Cynodontinæ).

PROCYNODICTIS Wortman and Matthew. Type *P. vulpiceps* Wortman and Matthew.

Hay, O. P. 1902 A, 760.
Matthew, W. D. 1909 D, 343.
Osborn, H. F. 1910 B, 169, 170, 528.
Palmer, T. S. 1904 A, 568, 812.
Scott, W. B. 1913 A, 529, 530.
Trouessart, E. L. 1904 A, 217.
Wortman, J. L. 1901 B, xi, 443, 450.
Zittel and Schlosser 1911 A, 386.
1923 A, 466, 689.

Procynodictis vulpiceps Wortman and Matthew.

Hay, O. P. 1902 A, 760.
Matthew, W. D. 1903 B, 210.
1909 C, 99.
1909 D, 341.
Schlosser, M. 1902 A, 136.
Thorpe, M. R. 1923 B, 221.
Trouessart, E. L. 1904 A, 217.
Upper Eocene (Uinta); Utah.

CYNODICTIS Bravard and Pomel. Type *C. parisiensis* Pomel.

Hay, O. P. 1902 A, 771.
Beddard, F. E. 1902 A, 423.
Carlsson, A. 1914 A, 227.
Chardin, T. 1915 A, 119, 129.
1922 A, 98.
Depéret, C. 1906 A, 618.
1908 A, 167.
1912 A, 708.
Frick, C. 1926 A, 16.
Gaudry, A. 1891 C, 53.
Gervais, P. 1859 A, 216.
Gregory, W. K. 1912 C, 189.
1920 A, 151.
Hatcher, J. B. 1902 F, 83.
Haug, E. 1911 A, 1528.
Huxley, T. H. 1880 C, 4.
1880 D, 447, 455.
Lydekker, R. 1904 C, 62.
Martin, R. 1906 A, 411.
Matthew, W. D. 1901 B, 369, 371, 380
1906 C, 214.
1907 A, 181, 192.
1907 B, 534.
1909 C, 110.
1909 D, 353.
1915 A, 197, 219, 221.
1915 K, 420.
1924 C, 107, 119, 122, fig. 28.
1924 E, 748.
1928 B, 973, 974, fig. 13.
Matthew and Granger 1924 B, 8, fig. 6.
1925 D, 5.
Merriam, J. C. 1906 A, 58, 59.
O'Harra, C. C. 1910 A, 79, 146.
Osborn, H. F. 1907 G, 196, fig. 196.
1909 D, 57, 61, 63.
Palmer, T. S. 1904 A, 210, 824.
Pictet, F. J. 1853 A, 207.
Schlosser, M. 1902 A, 137.
1902 B, 298.
1902 J, 163, 235.
1903 I, 26, 211 (Cynodictis); 25 (Galecynus).
1904 B, 447.
Schmidt, O. 1886 A, 271.
Scott, W. B. 1913 A, 254, 530, 547.
Seeley, H. G. 1886 A, 517 (Galecynus).
Sinclair, W. J. 1924 A, 106.
Stromer, E. 1902 A, 256.
1902 B, 554, 561.
Studer, Th. 1906 A, 56.
Thorpe, M. R. 1922 E, 425.
1923 E, 241.
Tomes, C. S. 1906 A, 56, fig. 25.
Trouessart, E. L. 1904 A, 223.
Weber, M. 1904 A, 534, 540, 541.
Weber and Abel 1928 A, 328.
Winge, H. 1924 A, 177, 193, 195, 242.
Woodward, A. S. 1898 D, 330.
Wortman, J. L. 1901 B, xi, 443.
Zittel and Schlosser 1911 A, 387.
1923 A, 467, 668.

Cynodictis angustidens (Marsh).

Hay, O. P. 1902 A, 772 (Daphœnus).
Lydekker, R. 1884 A, 247 (Amphicyon).
Thorpe, M. R. 1922 C, 162 (Amphicyon); 163, 164, 173 (Cynodictis).
1922 E, 425, fig. 1 (C. gregarius, a syn.).
Miocene (Valentine); Nebraska, South Dakota, Colorado.

Cynodictis gregarius (Cope).

Hay, O. P. 1902 A, 771.
Cook, H. J. 1912 D, 36.
Dall and Harris 1892 A, 289 (Galecynus).
Darton, N. H. 1905 A, 173.
Hatcher, J. B. 1902 F, 105, pl. xvi, fig. 1; pl. xviii, figs. 2, 3.
Matthew, W. D. 1901 B, 357, 369, 380, pl. xxxvii.
1909 C, 105.
1924 C, 122, 123, fig. 28 (Nothocyon).
O'Harra, C. C. 1910 A, 80, fig. 12.
1920 A, 82, figs. 26, 27.
Schlosser, M. 1902 A, 137.
1902 J, 50 (Pseudocynodictis).
Scott, W. B. 1913 A, 529, fig. 260.
Seeley, H. G. 1886 A, 517 (Galecynus).
Sinclair, W. J. 1924 A, 102, 111.
Thorpe, M. R. 1922 E, 425, fig. 1 (Syn. of C. angustidens).
Trouessart, E. L. 1904 A, 223.
Zittel and Schlosser 1911 A, 387 (Galecynus).

Zittel and Schlosser 1923 A, 467 (Galecynus).
Oligocene (Middle); Colorado: (Brule); Nebraska, South Dakota.

Cynodictis lippincottianus (Cope).

Hay, O. P. 1902 A, 771 (C. lippincottianus, C. hylactor).
Cook, H. J. 1912 D, 36.
Lambe, L. M. 1908 A, 11, 61, pl. viii, figs. 9-14.
Matthew, W. D. 1901 B, 357, 380 (Amphicyon gracilis a syn.).
1909 C, 105.
Schlosser, M. 1902 J, 50 (Pseudocynòdictis).
Thorpe, M. R. 1922 E, 427.
Trouessart, E. L. 1904 A, 223, 224.
Oligocene (Middle); Colorado: Oligocene (Brule); Nebraska.

Cynodictis oregonensis Merriam.

Merriam, J. C. 1906 A, 4, 5, 11, pl. ii, figs. 4, 5.
Matthew, W. D. 1909 C, 106.
Merriam and Sinclair 1907 A, 184, 188, 189.
Thorpe, M. R. 1922 C, 162.
1922 E, 427, 428.
Zittel and Schlosser 1923 A, 467 (Galecynus).
Oligocene (Middle John Day); Oregon.

Cynodictis paterculus Matthew.

Matthew, W. D. 1903 B, 209.
1909 C, 103.
1910 A, 33.
Thorpe, M. R. 1922 C, 163.
1922 E, 428.
Zittel and Schlosser 1911 A, 387 (Galecynus).
1923 A, 467 (Galecynus).
Oligocene (Titanotherium); Montana, Colorado, South Dakota.

Cynodictis temnodon Wortman and Matthew.

Hay, O. P. 1902 A, 771.
Cook, H. J. 1912 D, 38.
Matthew, W. D. 1901 B, 357, 370.
1909 C, 106.
1918 A, 189.
O'Harra, C. C. 1920 A, 153.
Trouessart, E. L. 1904 A, 225.
Oligocene (Brule); Colorado, Nebraska.

Cynodictis sp. indet.

Cook, H. J. 1912 D, 34. Oligocene (Chadron); Nebraska.
Matthew, W. D. 1909 C, 103. Oligocene (Chadron); South Dakota, etc.

CYNODON Aymard, A. Type *C. velaunus* Aymard.

Aymard, A. 1848, Ann. Soc. Agri. Sci., Arts et Comm. du Puy, XII, 244.
1850 A, 110.
1851 A, 92, 118, pl.
Chardin, T. 1915 A, 134, 189.
Gervais, P. 1852 A, 115, explan, pl. xxv.
1859 A, 218.
Hoernes, R. 1886 A, 694.
Matthew, W. D. 1909 C, 110 (This genus?).
1915 K, 420.
1924 C, 121, 122.
Matthew and Granger 1924 B, 4, fig. 6.
Nicholson and Lydekker 1889 A, 1434.
Osborn, H. F. 1910 B, 189, 528.
Winge, H. 1924 A, 177, 193, 195, 243.
Zittel, K. A. 1893 B, 624.
Zittel and Schlosser 1911 A, 389.
1923 A, 469.

Cynodon sp. indet.

Cook, H. J. 1912 D, 34. Oligocene (Chadron); Nebraska or adjacent region.

CYNODESMUS Scott. Type *C. thoöides* Scott.

Hay, O. P. 1902 A, 773.
Beddard, F. E. 1902 A, 424.
Matthew, W. D. 1907 A, 174, 181, 182, 186, 192.
1909 C, 118.
1912 B, 185.
1918 A, 189.
1924 C, 107, 109, 118, 122, fig. 28.
1924 E, 748.
1928 B, 974, fig. 13.
Merriam, J. C. 1906 A, 58.
O'Harra, C. C. 1910 A, 80, 130.
Osborn, H. F. 1909 D, 75, 80.
1912 G, 249.
Palmer, T. S. 1904 A, 210, 824.
Romer and Sutton 1927 A, 462.
Schlosser, M. 1902 B, 299.
Scott, W. B. 1913 A, 522, 525, 530.
Thorpe, M. R. 1922 E, 434.
Zittel and Schlosser 1911 A, 387.
1923 A, 467, 672.

Cynodesmus brachypus (Cope).

Hay, O. P. 1902 A, 775 (Canis).
Cope and Matthew 1915 A, pl. cxix a, figs. 4, 7; pl. cxix b; pl. cxix c, figs. 1-3 (Canis, Cynodesmus).
Matthew, W. D. 1904 C, 253 (Canis).
1907 A, 186, 187, 188.
1909 C, 112.
Peterson, O. A. 1910 A, 209, 213, figs. 6, 10.
Lower Miocene (Laramie Peak); Wyoming.

Cynodesmus cuspidatus Thorpe.

Thorpe, M. R. 1922 E, 433, figs. 4, 5.
Upper Miocene (Valentine); Nebraska.

Cynodesmus minor Matthew.

Matthew, W. D. 1907 A, 172, 180, 181, 189.
1909 C, 112.
O'Harra, C. C. 1920 A, 155.
Miocene (Lower); South Dakota.

Cynodesmus thomsoni Matthew.

Matthew, W. D. 1907 A, 172, 178, 180, 181, 186, figs. 4, 5.
Cook, H. J. 1912 D, 42.
Matthew, W. D. 1909 C, 112.
1924 C, 109.
O'Harra, C. C. 1920 A, 155.
Peterson, O. A. 1910 A, 209, 267, fig. 62.
Thorpe, M. R. 1922 E, 433.
Miocene (Upper Rosebud); South Dakota.

Cynodesmus thoöides Scott.

Hay, O. P. 1902 A, 773.
Douglass, E. 1903 A, 151.
Matthew, W. D. 1904 C, 253.
1907 A, 186.
1909 C, 112.
Peterson, O. A. 1910 A, 209.
Scott, W. B. 1913 A, 522, fig. 255.
Sellards, E. H. 1916 B, 89.
Thorpe, M. R. 1922 C, 170.
1922 E, 433.
Miocene (Lower); Montana.

Cynodesmus sp. indet.

Cook, H. J. 1912 D, 43. Miocene (Sheep Creek); Nebraska.

NOTHOCYON Matthew. Type *Canis geismarianus* Cope.

Hay, O. P. 1902 A, 771.
Beddard, F. E. 1902 A, 415.
Frick, C. 1926 A, 6, 7.
Haug, E. 1911 A, 1705.
Ihering, H. 1910 A, 159.
Matthew, W. D. 1901 B, 380.
1907 A, 174, 180, 181, 182, 184, 192.
1909 C, 110, 118.
1918 A, 189.
1924 E, 748.
Merriam, J. C. 1906 A, 13, 58.
O'Harra, C. C. 1910 A, 80, 130.
Osborn, H. F. 1909 D, 131.
1910 B, 230, 236, 528.
1912 G, 246.
Palmer, T. S. 1904 A, 462, 825.
Romer and Sutton 1927 A, 462.
Schlosser, M. 1902 A, 137.
Scott, W. B. 1913 A, 530.
Studer, Th. 1901 A, 8.
1906 A, 31, 33, 56.
Trouessart, E. L. 1904 A, 234 (Subg. of Canis).
Weber and Abel 1928 A, 329, 340.
Winge, H. 1924 A, 231, 233.
Zittel and Schlosser 1911 A, 387.
1923 A, 467, 672.

Nothocyon annectens Peterson.

Peterson, O. A. 1906 C, 53, figs. 14, 15.
Cook, H. J. 1909 D, 268.
1912 D, 40.
Matthew, W. D. 1909 C, 112.
O'Harra, C. C. 1920 A, 155.
Peterson, O. A. 1924 B, 303.
Thorpe, M. R. 1922 E, 429.
Lower Miocene (Harrison); Nebraska, South Dakota.

Nothocyon geismarianus (Cope).

Hay, O. P. 1902 A, 771.
Matthew, W. D. 1901 B, 381 (Cynodictis).
1907 A, 180, 182.
1909 C, 106.
1924 C, 122, fig. 28.
Merriam, J. C. 1906 A, 4, 5.
Merriam and Sinclair 1907 A, 184, 189.
Schlosser, M. 1902 A, 137.
Seeley, H. G. 1886 A, 517 (Galecynus).
Studer, Th. 1906 A, 31, 33 (Canis geismarus).
Zittel and Schlosser 1911 A, 387.
1923 A, 467.
Upper Oligocene (John Day); Oregon.

Nothocyon geismarianus mollis Merriam.

Merriam, J. C. 1906 A, 4, 13, pl. ii, fig. 1; pl. iii, fig. 1.
Merriam and Sinclair 1907 A, 184, 188, 189.
Upper Oligocene (John Day); Oregon.

Nothocyon gregorii Matthew.

Matthew, W. D. 1907 A, 171, 180, 183, fig. 1.
Cook, H. J. 1912 D, 39.
Matthew, W. D. 1909 C, 112.
O'Harra, C. C. 1920 A, 155.
Lower Miocene (Harrison); South Dakota: (Monroe Creek); Nebraska.

Nothocyon latidens (Cope).

Hay, O. P. 1902 A, 771.
Matthew, W. D. 1907 A, 180, 182.
1909 C, 106.
1924 C, 123.
Merriam, J. C. 1906 A, 4, 5, 13, 15, pl. ii, figs. 6, 7.
Merriam and Sinclair 1907 A, 184, 188, 189.
Romer and Sutton 1927 A, 463.
Schlosser, M. 1902 A, 137.
Studer, Th. 1906 A, 31 (Canis).
Thorpe, M. R. 1922 C, 164.
Upper Oligocene (Middle John Day); Oregon.

Nothocyon latidens multicuspis Thorpe.

Thorpe, M. R. 1922 E, 430, fig. 3.
Lower? Miocene; Nebraska.

Nothocyon lemur (Cope).

Hay, O. P. 1902 A, 772.
Cook, H. J. 1912 D, 39 (This species?).
Matthew, W. D. 1907 A, 180, 182.
1909 C, 106, 112.
1924 C, 123.
Merriam, J. C. 1906 A, 4, 5, 12, 14, pl. ii, figs. 2, 3, 6, 7, 8.
Merriam and Sinclair 1907 A, 184, 188, 189, 191, 192.
Peterson, O. A. 1906 C, 24, 33 (This species?).

Romer and Sutton 1927 A, 463.
Schlosser, M. 1902 A, 137.
Seeley, H. G. 1886 A, 517 (Galecynus).
Studer, Th. 1906 A, 31 (Canis).
Thorpe, M. R. 1922 C, 165.
Upper Oligocene (John Day); Oregon: Lower Miocene (Harrison?); Nebraska.

Nothocyon vulpinus Matthew.

Matthew, W. D. 1907 A, 171, 180, 183, fig. 2.
1909 C, 112.
O'Harra, C. C. 1920 A, 155.
Thorpe, M. R. 1922 E, 429.
Lower Miocene (Harrison); South Dakota.

Nothocyon vulpinus coloradoënsis Thorpe.

Thorpe, M. R. 1922 E, 430, fig. 2.
Lower Miocene; Colorado.

Nothocyon sp. indet.

Cook, H. J. 1909 D, 266, fig. 5. Miocene (Lower Harrison); Nebraska.
1912 D, 42. Miocene (Upper Harrison); Nebraska.
Thorpe, M. R. 1922 E, 432.

PERICYON Thorpe. Type *P. socialis* Thorpe.

Thorpe, M. R. 1922 C, 162, 172.
Zittel and Schlosser 1923 A, 467.

Pericyon socialis Thorpe.

Thorpe, M. R. 1922 C, 172, fig. 3.
Upper Oligocene (Upper John Day); Oregon.

MESOCYON Scott. Type *Temnocyon coryphæus* Cope.

Hay, O. P. 1902 A, 773.
Cook, H. J. 1909 D, 262.
Matthew, W. D. 1903 D, 913 (= Hypotemnocyon).
1907 A, 174, 181, 182, 192.
1909 C, 110, 118.
1924 C, 119, 122, fig. 28.
Merriam, J. C. 1906 A, 58, 59.
Osborn, H. F. 1909 D, 68, 75.
Palmer, T. S. 1904 A, 342, 824 (Hypotemnodon); 414, 825 (Mesocyon).
Peterson, O. A. 1910 A, 259.
Schlosser, M. 1898 I, 514 (Hypotemnodon).
1903 I, 26, 176 (Hypotemnodon).
Scott, W. B. 1913 A, 528, 530.
Studer, Th. 1906 A, 56 (Hypotemnodon).
Thorpe, M. R. 1922 C, 173.
Trouessart, E. L. 1904 A, 218.
Zittel and Schlosser 1911 A, 387.
1923 A, 467.

Mesocyon brachyops Merriam.

Merriam, J. C. 1906 A, 4, 5, 17, 18, fig. 2.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 184, 191, 192.
Thorpe, M. R. 1922 C, 169.
Oligocene (Upper John Day); Oregon.

Mesocyon coryphæus (Cope).

Hay, O. P. 1902 A, 773.
Cook, H. J. 1909 D, 264.
Matthew, W. D. 1903 D, 913 (Temnocyon).
1907 A, 182.
1909 C, 106.
Merriam, J. C. 1906 A, 4, 5, 16, 17, 21, fig. 3.
Merriam and Sinclair 1907 A, 184, 188, 189, 191, 192.
Schlosser, M. 1898 I, 516 (Hypotemnodon).
Thorpe, M. R. 1922 C, 168.
Trouessart, E. L. 1904 A, 218.
Oligocene (Middle John Day); Oregon.

Mesocyon drummondanus Douglass.

Douglass, E. 1903 A, 151, 164, figs. 9, 10 (This genus?).
Matthew, W. D. 1909 C, 107.
Thorpe, M. R. 1922 C, 171.
Oligocene? (Upper); Montana.

Mesocyon iamonensis Sellards.

Sellards, E. H. 1916 B, 88, pl. ii, fig. 11 (This genus?).
Miocene; Florida.

Mesocyon josephi (Cope).

Hay, O. P. 1902 A, 773.
Matthew, W. D. 1907 A, 182.
1909 C, 106.
Merriam, J. C. 1906 A, 4, 5, 17, 19.
Merriam and Sinclair 1907 A, 184, 188, 189.
Thorpe, M. R. 1922 C, 169.
Oligocene (Middle John Day); Oregon.

Mesocyon josephi secundus Thorpe.

Thorpe, M. R. 1922 C, 170, figs. 1, 2.
Oligocene (Middle John Day); Oregon.

Mesocyon robustus Matthew.

Matthew, W. D. 1907 A, 171, 185, fig. 3.
1909 C, 112.
O'Harra, C. C. 1920 A, 155.
Peterson, O. A. 1910 A, 259.
Thorpe, M. R. 1922 E, 429.
Lower Miocene (Rosebud); South Dakota, Colorado.

Mesocyon sp. indet.

Cook, H. J. 1912 D, 39. Miocene (Monroe Creek); Nebraska.
Matthew, W. D. 1909 C, 112. Miocene (Monroe Creek); Nebraska.
Merriam, J. C. 1906 A, 20, 21, figs. 4-6. Oligocene (John Day); Oregon.
Osborn, H. F. 1918 A, 16. Upper Oligocene (Alum Bluff).; Florida.

CANINÆ Gill.

Gill, T. 1872 B, 63.
Hay, O. P. 1902 A, 77.
Abel, O. 1913 B, 717 (Caninæ, Cynodictinæ).
Arldt, T. 1912 A, 748.
Frassetto, F. 1902 A, 220.
Frick, C. 1926 A, 7, 13.
Giebel, C. G. 1855 A, 25.
Gray, J. E. 1868 B, 497 (Canina).
Lydekker, R. 1884 A, 240.
Matthew, W. D. 1907 A, 181.
    1924 C, 122, fig. 28.
Miller, G. S. 1924 C, 143.
Trouessart, E. L. 1904 A, 223.
Weber and Abel 1928 A, 328.
Zittel and Schlosser 1911 A, 389.
    1923 A, 469 (Caninæ); 466 (Cynodictinæ).

TEPHROCYON Merriam. Type *Canis rurestris* Condon.

Merriam, J. C. 1906 A, 6, 58.
Cook, H. J. 1922 B, 5.
Frick, C. 1926 A, 20.
Hay, O. P. 1923 A, 15.
Lydekker, R. 1914 A, 630.
Matthew, W. D. 1909 C, 118.
    1915 A, 219.
    1918 A, 188.
    1924 C, 88, 109.
    1924 E, 748.
    1928 B, 974, fig. 13.
Matthew and Cook 1909 A, 366.
Merriam, J. C. 1911 B, 207, 216.
    1913 D, 359, 360, 371.
    1915 F, 257.
    1917 A, 437.
    1919 A, 451, 455, 528.
Osborn, H. F. 1910 B, 296, 356, 528.
Scott, W. B. 1913 A, 522, 527, 530.
Thorpe, M. R. 1922 C, 173.
Weber and Abel 1928 A, 329.
Zittel and Schlosser 1911 A, 389.
    1923 A, 470, 673, 679.

Tephrocyon kelloggi Merriam.

Merriam, J. C. 1911 B, 205, 214, 215, 235, pl. xxxii, figs. 5-7.
Matthew, W. D. 1918 A, 188.
Merriam, J. C. 1911 B, 211, 213, 214, 215 ("T. near kelloggi").
    1913 D, 360, 361, 367, figs. 9, 11, 12 (T. kelloggi); figs. 10, 13 ("T. near kelloggi").
    1916 A, 173, figs. 1, 2 (This species?).
    1917 A, 429 (This species?).
    1919 A, 452, 464.

Miocene (Cedar Mountain, Virgin Valley): Pliocene (Thousand Creek); Nevada.

Tephrocyon rurestris (Condon).

Condon, T. 1896 A, 11, pl., fig. of skull (Canis).
    1902 A, 123, 139 ("dog"); pl. xviii, large fig. (Canis).
    1910 A, 101, 115, 116, pl. xviii, large fig. (Canis).
Hay, O. P. 1924 A, 4.
Matthew, W. D. 1909 C, 114.
    1918 A, 188.
Matthew and Cook 1909 A, 374.
Merriam, J. C. 1906 A, 4, 6, pl. i, figs. 1-3.
    1911 B, 209, 214, 239, fig. 8 (This genus and species?).
    1913 D, 360, 361, 362, figs. 1-5, 15?.
    1919 A, 464, fig. 8 (This species?).
Merriam and Sinclair 1907 A, 196.
Thorpe, M. R. 1922 C, 175.
    1922 E, 435.

Middle Miocene (Mascall); Oregon: (Virgin Valley); Nevada: Upper Miocene (Barstow); California.

Tephrocyon temerarius (Leidy).

Hay, O. P. 1902 A, 776 (Canis).
    1924 D, 239 (Canis. This species?).
Cook, H. J. 1912 D, 44 (Tephrocyon. This species?).
Hay, O. P. 1924 A, 2 (Tephrocyon).
Matthew, W. D. 1901 B, 358, 359, 374 (Canis).
    1909 C, 114 ("Canis" cf. temararius); 115 ("Canis" temararius).
    1918 A, 185, 188 (Tephrocyon).
    1924 C, 65, 71, 98.
Matthew and Cook 1909 A, 376 (Tephrocyon).
Merriam, J. C. 1913 D, 360, 361, 365, figs. 7-8 (Tephrocyon).
    1917 A, 435 (Tephrocyon. This species?).
    1919 A, 450, 462, 527, fig. 7 (Tephrocyon. This species?).
Merrill, G. P. 1907 A, 27 (Canis).
Peterson, O. A. 1910 A, 268, fig. 63 (Tephrocyon).
Sinclair, W. J. 1915 A, 76 (Tephrocyon. This species?).
Troxell, E. L. 1915 A, 616, 633, figs. 21, 22 (Canis).

Lower Pliocene (Arikaree); Nebraska: Upper Miocene (Lower Snake Creek); Nebraska: (Pawnee Creek); Colorado: (Barstow?); California?.

Tephrocyon sp. indet.

Merriam, J. C. 1911 B, 241, fig. 9 (This genus?). Miocene (Virgin Valley); Nevada.
    1913 D, 361, figs. 14-16 (This genus?). Middle Miocene; Nevada.
    1917 A, 425.
Stock, C. 1925 A, 20. Lower Pliocene (Pinole-Orinda-Siesta); California.

See also *Tomarctus* sp. indet.

LEPTOCYON Matthew. Type *Canis vafer* Leidy.

Matthew, W. D. 1918 A, 185, 189.
    1924 C, 120.
Zittel and Schlosser 1923 A, 470, 679.

Leptocyon vafer (Leidy).

Hay, O. P. 1902 A, 776 (Canis).
Abel, O. 1913 B, 717 (Canis).

Abel, O. 1914 A, 80 (Canis).
Cook, H. J. 1912 D, 44 (Tephrocyon. This species?).
Matthew, W. D. 1909 C, 115 ("Canis" vafer).
1918 A, 185, 190.
1924 C, 65.
Matthew and Cook 1909 A, 376 (To Tephrocyon?).
Merriam, J. C. 1913 D, 361 (Tephrocyon?).
1917 A, 435 (Canis. This species?).
1919 A, 533, figs. 138, a, b (Canis? This species?).
Merrill, G. P. 1907 A, 28 (Canis).
Osborn, H. F. 1915 B, 206 (Canis).
Sinclair, W. J. 1915 A, 76 (Tephrocyon. This species?).
Thorpe, M. R. 1922 E, 437.
Trouessart, E. L. 1904 A, 238 (L. vafra).
Troxell, E. L. 1915 A, 633, 634 (Canis. This species?).
Pliocene (Ricardo); California: Upper Miocene (Snake Creek); Nebraska.

ÆLURODON Leidy. Type *A. ferox* Leidy = *A. sævus* Leidy.

Hay, O. P. 1902 A, 773.
Frick, C. 1926 A, 17, 20.
Haug, E. 1911 A, 1706.
Heilprin, A. 1887 A, 386, 388.
Lydekker, R. 1884 A, 178.
Matthew, W. D. 1904 C, 249, 250.
1907 A, 181.
1909 C, 118.
1912 B, 185.
1915 A, 219.
1918 A, 188.
1924 C, 70, 88, 102, 109, 118, 122, 126, fig. 28.
1924 E, 748.
Matthew and Cook 1909 A, 370.
Merriam, J. C. 1906 A, 9, 58.
1915 F, 257, 262.
1915 G, 100.
1917 A, 437.
1919 A, 451, 455, 531.
O'Harra, C. C. 1910 A, 80, 132.
Osborn, H. F. 1909 D, 80, 81.
1910 B, 301, 349, 353, 528.
Palmer, T. S. 1904 A, 81, 823.
Pilgrim, G. E. 1912 A, 13.
Scott, W. B. 1913 A, 527.
Stock, C. 1928 D, 41.
Stock and Furlong 1926 A, 45.
Trouessart, E. L. 1904 A, 226.
Weber and Abel 1928 A, 329.
Zittel and Schlosser 1911 A, 388.
1923 A, 468, 673, 679.

Ælurodon? aphobus Merriam, J. C.

Merriam, J. C. 1919 A, 525, 527, 535, figs. 144, 145.
Matthew, W. D. 1924 C, 100.
Stock, C. 1928 D, 41, pl. i, fig. *a*.
Stock and Furlong 1926 A, 47 (This genus?).
Lower Pliocene (Ricardo); California.

Ælurodon? brachygnathus Douglass.

Douglass, E. 1903 A, 153, 173, fig. 16 (Ælurodon?).
Matthew, W. D. 1904 C, 252 (Ælurodon?).
1909 C, 114 (Ælurodon).
Miocene (Flint Creek); Montana.

Ælurodon compressus Cope.

Hay, O. P. 1902 A, 774.
Matthew, W. D. 1904 C, 251, 253.
1909 C, 115 (Ælurodon?).
Matthew and Cook 1909 A, 373 (Canis).
Miocene (Arikaree); Nebraska.

Ælurodon francisi Hay.

Hay, O. P. 1924 A, 2, pl. iii, figs. 1, 2.
Upper Miocene (Fleming); Texas.

Ælurodon haydeni (Leidy).

Hay, O. P. 1902 A, 774.
Barbour and Cook 1917 B, 173, fig. 5.
Cook, H. J. 1912 D, 44.
Gidley, J. W. 1904 A, 245.
Matthew, W. D. 1904 C, 250, 251, fig. 5.
1909 C, 115.
1923 A, 12.
1924 C, 65.
Matthew and Cook 1909 A, 371, fig. 2.
Merrill, G. P. 1907 A, 27 (Canis).
O'Harra, C. C. 1920 A, 158.
Stock, C. 1928 D, 42.
Troxell, E. L. 1915 A, 632 (Canis. This species?).
Lower Pliocene (Upper Snake Creek); Nebraska, Montana, South Dakota.

Ælurodon haydeni validus Matthew and Cook.

Matthew and Cook 1909 A, 371.
Matthew, W. D. 1918 A, 185.
1924 C, 100.
Merriam, J. C. 1917 A, 435.
Sinclair, W. J. 1915 A, 76.
Stock, C. 1928 D, 42.
Lower Pliocene (Upper Snake Creek); Nebraska.

Ælurodon hyænoides Cope.

Hay, O. P. 1902 A, 774.
Cope and Matthew 1915 A, pl. cxixa, fig. 5 (Ælurodon, Brachypsalis?).
Matthew, W. D. 1904 C, 252 ("Not this genus").
1909 C, 115.
1918 A, 195.
Pliocene (Snake Creek); Nebraska.

Ælurodon platyrhinus Barbour and Cook.

Barbour and Cook 1917 B, 173, figs. 1-4.
Pliocene (Valentine); Nebraska.

Ælurodon sævus (Leidy).

Hay, O. P. 1902 A, 774.
Barbour and Cook 1917 B, 173, figs. 7, 8.
Cope, E. D. 1891 N, 64, fig. 30.

Cope and Matthew 1915 A, pls. cxviii, cxviii*a*, cxviii*b*, pl. cxix, figs. 1-9.
Gidley, J. W. 1904 A, 245.
Hay, O. P. 1924 D, 239 (Ælurodon, Canis. This species?).
Matthew, W. D. 1904 C, 250.
1909 C, 115.
1923 A, 12.
1924 C, 65, 102.
Merriam, J. C. 1917 A, 438.
Merrill, G. P. 1907 A, 21 (Æ. ferox, Æ. sævus); 27 (Canis sævus).
O'Harra, C. C. 1920 A, 158.
Thorpe, M. R. 1922 E, 439.
Troxell, E. L. 1915 A, 616, 633 (Canis. This species?).
Miocene (Arikaree); Nebraska, South Dakota: Pliocene (Republican River); Kansas: ? Pleistocene (Aftonian); Texas, *fide* Troxell: Lower Pliocene (Upper Snake Creek); Nebraska.

Ælurodon sævus secundus Matthew and Cook.

Matthew and Cook 1909 A, 372, fig. 3.
Cook, H. J. 1912 D, 44.
Hay, O. P. 1924 A, 2.
Matthew, W. D. 1918 A, 185.
Merriam, J. C. 1917 A, 435.
Sinclair, W. J. 1915 A, 76.
Pliocene (Snake Creek); Nebraska.

Ælurodon simulans Hay.

Hay, O. P. 1924 A, 2, text-fig. 1.
Upper Miocene (Fleming); Texas.

Ælurodon taxoides Hatcher.

Hay, O. P. 1902 A, 774.
Matthew, W. D. 1904 C, 250.
1909 C, 115 (Syn. of Æ. wheelerianus).
Thorpe, M. R. 1922 E, 440, 443.
Miocene (Arikaree); Nebraska.

Ælurodon wheelerianus Cope.

Hay, O. P. 1902 A, 774.
Barbour and Cook 1917 B, 173, fig. 6.
Cope and Matthew 1915 A, pl. cxix*a*, figs. 1-3.
Frick, C. 1926 A, 20 (Canis).
Gidley, J. W. 1904 A, 245 (This species?).
Matthew, W. D. 1904 C, 250, figs. 3, 4.
1909 C, 115 (Includes *Æ. taxoides* Hatcher).
1918 A, 185 (Includes *Æ. taxoides* Hatcher).
Merriam, J. C. 1917 A, 435, 438 (This species?).
1919 A, 450, 464, 527, 533, figs. 10, 11 (This species?).
Sinclair, W. J. 1915 A, 76, 78, fig. 1 (This species?).
Thorpe, M. R. 1922 E, 439, 443 (This species?).
Zittel and Schlosser 1911 A, 388, fig. 554.
1923 A, 468, fig. 593.
Miocene (Arikaree); New Mexico, Nebraska: ? Upper Miocene (Barstow); California.

Ælurodon? sp. indet.

Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
1917 B, 180. Pliocene (Valentine); Nebraska.
Matthew, W. D. 1904 C, 252, 253 ("canid"). South Dakota.
Matthew and Cook 1909 A, 372.
Merriam, J. C. 1911 B, 241, fig. 10. Virgin Valley; Nevada.
1917 A, 429, 430. Pliocene (Thousand Creek); Nevada: 430 ("near A. wheelerianus"): (Ricardo); Nevada.
1919 A, 525, 527, 538, figs. 146-153 (Ælurodon or Tephrocyon). Barstow; California.
Merriam and Stock 1928 A, 8, text-fig. 1. Pliocene (Thousand Creek); Nevada.
Sinclair, W. J. 1915 A, 76.

CANIS Linnæus. Type *C. familiaris* Linnæus.

Hay, O. P. 1902 A, 775 (Canis); 776 (Pachycyon).
Abel, O. 1909 D, (226).
1912 D, 602 ("wolf").
1914 A, 80.
1920 A, 422, fig. 637 ("wolf").
1921 A, 140, fig. 21 ("wolf").
Adolphi, H. 1899 A.
Allen, G. M. 1920 A, 431 (Pachycyon).
Allen, J. A. 1892 A.
1903 A.
Altmann, F. 1925 A, 108.
Ameghino, F. 1885 A, 203.
1889 A, 1007.
1904 A, 8.
1906 B, 9.
Anderson, R. J. 1902 A, 1121, fig. 13.
1902 B, 369, fig.
1903 A, 651.
1908 A, 547 ("dogs").
1909 A, 745.
Anthony, R. 1905 A, 854 ("chiens").
1912 A, ("chien").
Arldt, T. 1907 D, 643.
Baker, F. C. 1920 A, 210, 374.
Bardenfleth, K. S. 1913 A, 86.
Bateson, W. 1892 A, 105 ("dog").
Beddard, F. E. 1902 A, 416.
Bertelli, D. 1909 A, 175, figs. 8, 9.
Beyer, H. 1908 A, 101, fig. 24.
1909 A, 20 ("hunde").
Blanford, W. T. 1876 A, 285.
Boas, J. E. V. 1884 B, 392 ("hund").
1909 A, 526, figs. 2, 12 ("hund").
1914 B, 580.
1914 C, 303, figs. 96, 97.
Bolk, L. 1913 A, 86.
1921 B, 169, figs. 52*b*, 68.
1922 A, 101, fig. 100.
Bonsdorff, E. J. 1871 A, 318.
Bradley, O. C. 1908 A, 484 ("dog").
Brandt and Woldrich 1887 A, 38.
Bronn, H. G. 1848 A, 213.
1849 A, 720, 783, seq.
Broom, R. 1905 A, 98.
Bugnion, E. 1901 A, 94 ("chien").
Carus and Engelmann 1861 A, 1717.
Caush, D. E. 1904 A, 157 ("dog").

Chaine, J. 1921 A, 125 ("loup," "chien").
Cleland, J. 1863 A, 120 ("dogs").
Cope, E. D. 1880 U, 156.
Cuvier, G. 1805 A.
  1825 A, III, 267, pls.; IV, 246, pl. xvi ("chien").
Doran, A. H. G. 1878 A, 395, pl. lix.
Dubois, E. 1922 A, 315.
Duerst, J. U. 1904 A, 41 ("chiens").
  1908 A, 345.
Eimer, G. H. T. 1901 A, 259 ("hund").
Elliot, D. G. 1901 A, 299.
Ellenberger and Baum 1903 A ("hund").
Emery, C. 1890 A, 292 ("hund").
Engelmann, O. 1910 A, 486 ("hund").
Filhol, H. 1889 A, 221 ("chien").
Fischer, J. B. 1829 A, 172.
Foote, J. S. 1916 A, 138.
  1921 A, 10, pl. iii, fig. 24 ("bulldog").
Frassetto, F. 1903 A, 220, 234, 308.
Frets, G. P. 1912 A, 429, figs. 24-25, 51-61.
Fuchs, H. 1907 A, 153 ("hund").
  1911 B, 382, fig. 17.
Gaudry, A. 1875 D, 1282.
  1891 C, 54, fig. 19 ("wolf").
  1901 B, 100 ("chien").
Gaupp, E. 1905 D, 1039.
  1908 C, 745.
  1910 C, 356 ("hund").
Geikie, J. 1914 A, 328 ("wolf").
Geinitz, E. 1903 A.
  1904 A.
Gervais, P. 1852 A, 109.
  1853 B, 37 ("chien").
  1859 A, 211.
Gidley, J. W. 1913 B, 101 (Lyciscus); 102 (Lysciscus, Epicyon).
Giebel, C. G. 1855 A, 26, pls. ix, x.
  1883 A, pls. xii, xiii, lxxix.
Gottlieb, H. 1914 A, 203 ("hunde").
Grevé, C. 1891 A, 404, 405.
Hay, O. P. 1912 D, 776.
  1914 A, 484.
  1925 D, 242.
Heilprin, A. 1887 A, 386-388 (Canis); 388 (Pachycyon).
Hensel, R. 1879 A.
Hilzheimer, M. 1905 A.
Hoever, R. 1911 A, 84 ("hund").
Hoyer and Babik 1924 A, 452, pl. xxxiii, fig. 6 ("hunde").
Hrdlička, A. 1903 A, 372.
  1920 A, 463, pl. vi.
Hue, E. 1907 A, pls. i-xxi, xxx, xxxi, xxxii, lxxvii, lxxxi, xcvi, cx, cxxiv, cxxxiv, cxlvii, clxi, clxxvii.
Hull, E. 1914 A, 613.
Huxley, T. H. 1856 B, 191 ("dog," "wolf").
  1880 D, 407, figs. 1-5, 7, 8.
  1880 F, 162.
Ihering, H. 1910 A, 136.
Jacobi, A. 1921 A, 203, fig. 1.
Kampfen, P. N. 1905 A, 521, fig. 50.
Keller, C. 1903 A, 440 ("hunde").
Kingsley, J. S. 1925 A, 200, fig. 207 ("dog").
Klatt, B. 1912 A, 154, 164.
Köstlin, O. 1844 A.
Kraglievich, L. 1926 C, 68.
Krukenberg, A. 1849 A, 413 ("hund").
Laloy, L. 1907 A, 587.
Landois, H. 1863 A, 163 ("wolf").
Landsberger, R. 1914 A, 206 ("hund").
Lapicque and Girard 1907 A, 1017.
Leboucq, H. 1884 A, 85, fig. 45.
Leche, W. 1900 A, 991.
  1912 A, 76.
Le Damany, P. 1903 G, 127, figs. 1, 20 ("chien").
Ledouble, A. F. 1903 A, 642 ("chiens").
Lepkowski, W. 1897 A, 571, figs. 1, 2, 7, 19, 20 ("hunde").
Leunis and Ludwig 1883 A, 188.
Lobley, J. L. 1908 A, 194, 211.
Lockington, W. N. 1884 A, 415.
Lubosch, W. 1907 A, 619 ("hunde").
Lucae, J. P. 1872 A, 372.
Lull, R. S. 1922 C, 603.
Mackie, S. J. 1863 D, 337.
Magitot, E. 1875 A, 79 ("chiens").
Major, C. J. F. 1880 A, 39 ("hunde").
Matschie, P. 1896 A, 249.
  1901 A, 308.
Matthew, W. D. 1906 C, 216, text-fig. 6.
  1909 C, 118.
  1909 D, 324, text-fig. 3.
  1910 G, 154, 159.
  1915 A, 219.
  1918 A, 188.
  1924 C, 88, 106, 109, 122, fig. 28.
  1924 E, 748.
  1928 B, 974, fig. 13.
Mead, C. S. 1909 A, 195.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
Merriam, J. C. 1906 A, 8, 58.
Meunier, S. 1903 A, 776 ("loups").
Miller, G. S. 1912 B, 77.
  1924 C, 150.
Müller, F. 1911 A, 335 ("hund").
Mysberg, W. A. 1917 A, 655.
Nehring, A. 1880 A.
  1890 A, 34.
Noack, T. 1907 A, 661.
  1908 A, 254.
Olmstead, M. P. 1911 A, 339.
Osborn, H. F. 1905 I, 110.
  1907 G, 139, fig. 96.
  1909 D, 83, 85, 89.
  1910 B, 609, fig. 71.
  1915 B, 205.
  1916 B, 536.
  1925 F, 961 ("dog").
Owen, R. 1845 B, 475, pl. cxxv, figs. 1-4.
  1845 E, 127.
  1848 B, 187, pl. ii.
  1868 A, 869, fig. 262.
Palmer, T. S. 1904 A, 157, 823 (Canis); 494, 825 (Pachycyon).
Pander and Alton 1822 A, 8 ("hunde").
Paramore, R. H. 1910 A, 1459, fig. 10 ("dog").
Paulli, S. 1899 A, 154, fig. 1.
  1900 B, 489, pl. xxvii; text-figs. 4-6.
Pocock, R. I. 1914 A, 478.
  1914 B, 918, text-fig. 4.
  1916 F, 261.
Pohl, L. 1911 A, 131.
  1928 A, 437, fig. 1.

Pohle, H. 1921 A, 116, fig. 1.
Rehs, J. 1914 A, 56.
Reichert, K. B. 1849 A, 467 ("hunde").
Retterer, E. 1884 A, 478, 507 ("chien").
  1906 A, 197, figs. 1, 2, 5, 6 ("chien").
  1916 A, 764 ("chien").
  1919 B, 572 ("chien").
  1919 C, 618 ("chiens").
  1919 D, 741 ("chien").
  1919 E, 1222 ("chien").
Retterer and Lelièvre 1910 A, 952 ("chien").
  1910 B, 988 ("chien").
Retzius, A. 1837 A, 489.
  1849 A, 631.
Reynolds, S. H. 1897 A, 374-415, 539, figs. 68-80, 84, 100.
  1909 A, 1, pls. i-vi.
Römer, F. 1907 A, 73.
Roth, S. 1908 A, 141.
Rudolf, G. de M. 1922 A, 142, fig. 10 ("dog").
Scharff, R. F. 1895 A, 449-467.
  1911 A, 149 (Canis); 430 (Lyciscus).
Schlegel, R. 1912 A, 1-29.
Schlosser, M. 1897 B, 18.
  1898 I, 516.
  1902 B, 298.
  1903 I, 176, 209, 211.
Schmidt, O. 1886 A, 259.
Schwalbe, G. 1904 A, 207.
Scott, W. B. 1913 A, 522, 677 (Canis); 522 (Pachycyon).
Serres, M. 1835 A, 244 ("dog", "wolf").
Sippel, W. 1907 A, 521 ("hund").
Sisson, S. 1910 A, 150, figs. 115-137 ("dog").
Spurrell, H. G. F. 1906 A, 114 ("wolf").
Stach, J. 1905 A, 289 ("hunde").
Stromer, E. 1902 A.
Studer, T. 1901 A.
  1906 A, 23.
Taets, W. 1913 A, 5-78.
Taschenberg, O. 1899 A, 4493.
Terra, P. 1911 A, 64, 265, figs. 12, 13; 277, figs. 102, 103.
Tims, H. W. M. 1902 A, 322.
  1903 A, 140, fig. 2a.
  1905 B, 1786, fig. 2.
Tourneux, F. and J. P. 1912 A, 90, figs. 24-28 ("chien").
Trouessart, E. L. 1904 A, 227.
Van den Broeck, A. J. P. 1912 A, 782.
Veith, A. 1912 A, 19.
Virchow, H. 1909 A, 421, fig. 3.
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, I, 491; II, 197.
Weber, M. 1904 A, 533, 541.
Weber and Abel 1928 A, 307, 308, 312, 316, 324, figs. 184, 193, 199, 201.
Weber and Burlet 1927 A, figs. 42, 81, 114, 197, 198.
Weidenreich, F. 1922 A, 33 ("hund").
Wilder, B. G. 1874 A, 301 ("dogs").
Wińcza, H. 1890 A, 650, pl. xxiv ("hund").
Windle, B. C. A. 1890 A, 5 ("dogs").
Winge, H. 1923 A, 354, pl. iii, fig. 6.
  1924 A, 177, 193, 195, 243, 248.
Wright, G. F. 1911 B, 436 ("dog").
Zietzschmann, O. 1917 A, 437, pl. xxv ("hund").
Zittel and Schlosser 1911 A, 389.
Zittel and Schlosser 1923 A, 404, 470, 673, figs. 505-509, 512, 514, 516-518, 588, 590.

Canis? anceps Scott.

Hay, O. P. 1902 A, 775.
Matthew, W. D. 1901 B, 374.
  1909 C, 114 (This genus?).
  Miocene (Middle); Montana.

Canis andersoni Merriam, J. C.

Merriam, J. C. 1910 A, 393.
Abel, O. 1926 B, 237.
Hay, O. P. 1927 D, 184, 191.
Merriam, J. C. 1912 C, 260, figs. 41, 42.
Merriam and Stock 1925 A, 10.
Miller, L. H. 1912 A, 78.
Osborn, H. F. 1925 D, 531.
Stock, C. 1925 A, 30.
Swarth, H. S. 1915 A, 18.
Wyman, L. E. 1922 A, 23.
  Pleistocene (La Brea); California.

Canis armbrusteri Gidley.

Gidley, J. W. 1913 B, 96, 98, 102, figs. 2, 3.
  1913 G, 50 ("dog").
Hay, O. P. 1923 A, 350.
  Pleistocene (Middle); Maryland.

Canis? davisi Merriam.

Merriam, J. C. 1911 B, 211, 212, 214, 230, figs. 11-13.
  1917 A, 428, 429 (Canis?).
Merriam, Stock, Moody 1925 A, 58, 60, fig. 9 (This genus and species?).
Stock, C. 1925 A, 18 (This genus?).
  Pliocene (Thousand Creek); Nevada: Lower Pliocene (Rattlesnake); Oregon.

Canis furlongi Merriam.

Merriam, J. C. 1910 A, 393 (C. occidentalis furlongi).
Abel, O. 1926 B, 237 (C. occidentalis furlongi).
Hay, O. P. 1927 D, 184, 191.
Merriam, J. C. 1912 C, 251, fig. 32 (C. occidentalis furlongi).
Merriam and Stock 1925 A, 10 (C. occidentalis furlongi).
Miller, L. H. 1912 A, 78, 81 (C. occidentalis furlongi).
Osborn, H. F. 1925 D, 531, 533 (C. occidentalis furlongi).
Stock, C. 1925 A, 30 (C. occidentalis furlongi).
  Pleistocene (La Brea); California.

Canis latrans Say.

Hay, O. P. 1902 A, 775.
Allen, G. M. 1920 C.
Baker, F. C. 1920 A, 456.
Elliot, D. G. 1901 A, 301, pl. xxix.
Foote, J. S. 1916 A, 138, pl. xix.
Freudenberg, W. 1910 A, 26, pl. vi, fig. 1; pl. vii, figs. 1, 2.
  1921 A, 138.
  1922 A, 4.
Gilbert, G. K. 1890 A, 303, 394.
Grevé, C. 1891 A, 415.
Haug, E. 1911 A, 1886, 1887.
Hay, O. P. 1912 D, 781, pl. xxxi.
  1914 A, 26, 38, 491, pl. lxxv.

Hay, O. P. 1917 A, 60.
1918 C, 346 ("coyote").
1920 B, 129, 141.
1921 A, 633.
1923 A, 481.
1924 D, 375.
1926 D, 358 ("wolf").
1927 D, 303.
1928 C, 425.
Hrdlička, A. 1903 A, 373.
Huxley, T. H. 1880 D, 439.
Lockington, W. N. 1884 A, 419.
McCornack, E. C. 1920 A, 23.
Matschie, P. 1896 A, 252 ("präriehund").
Matthew, W. D. 1902 F, 317, 320 (This species?).
1915 K, 402.
1918 A, 226.
Merriam, C. H. 1897 B, 23.
Merriam, J. C. 1903 B, 278, 290.
1911 F, 210, fig. 1 ("coyote").
Miller, G. S. 1912 B, 79.
1924 C, 151.
Miller, L. H. 1912 A, 81.
Osborn, H. F. 1910 B, 457, 460, 464.
Pocock, R. I. 1913 A, 382, figs. 70-72, 74.
Scharff, R. F. 1911 A, 149, 430.
Scott, W. B. 1913 A, 165, fig. 79.
Seton, E. T. 1909 A, 789, pls. lxx-lxxv, map 43.
Shufeldt, R. W. 1913 B, 160, pl. xi, figs. 61-64; pl. xliii, figs. 555-561 (This species?).
Stock, C. 1925 A, 195.
Studer, T. 1901 A, 15.
Weber and Abel 1928 A, 326.
Whitney, J. D. 1862 A, 136 (C. latrans?).

Recent; northern Mississippi Valley from Rocky Mountains to eastern Illinois: Pleistocene; Lead region of Wisconsin, Nebraska, Indiana, California, Oregon: Upper Pliocene; Mexico (*fide* Freudenberg), Oklahoma, Texas.

Canis lestes Merriam.

Merriam, C. H. 1897, Proc, Biol. Soc. Wash., XI, 25.
Hay, O. P. 1927 D, 243 (C. latrans = ? C. lestes).
Matthew, W. D. 1902 F, 320 (C. latrans, C. lestes?).
Miller, G. S. 1912 B, 80.
1924 C, 151.

Recent; British Columbia to Arizona: Pleistocene; Oregon?

Canis lycaon Schreber.

Schreber, J. C. D. 1776, Säugethiere, pl. lxxxix.
Hay, O. P. 1902 A, 776 (C. occidentalis, in part).
Baird, S. F. 1857 A, 108 ("No. 1804").
Cope, E. D. 1895 G, 596 (C. lupus).
Cuvier, G. 1825 A, IV, 463.
Fischer, J. B. 1829 A, 182.
Frech and Geinitz 1903 A, 36 (C. lupus).
Grevé, C. 1891 A, 409.
Hay, O. P. 1923 A, 310.
Holland, W. J. 1908 A, 232 (C. occidentalis).
1912 B, 751 (C. occidentalis).
Leidy, J. 1889 H, 97 ("wolf").
Mercer, H. C. 1894 A, 97 ("wolf").
Miller, G. S. 1912 B, 78.
1912 C, 5.
1912 D, 95.
1924 C, 154.
Rhoads, S. N. 1903 A, 228 (C. mexicanus nubilus).
Woolman, L. 1897 B, 211 ("wolf").

Recent, Eastern Canada: Pleistocene; Pennsylvania, New Jersey.

The fossil wolf remains found in the eastern United States are referred to this species only provisionally.

Canis nubilus Say.

Say, T. 1823, Long's Exped. Rocky Mts., I, 169.
Brown, B. 1908 A, 182 (C. occidentalis).
Eaton, G. F. 1923 A, 233 (C. occidentalis).
Fischer, J. B. 1829 A, 183.
Haug, E. 1911 A, 1886 (C. lupus).
Hay, O. P. 1914 A, 32 (C. occidentalis).
1917 D, 48 (C. occidentalis?).
1920 B, 129.
1921 A, 633 (This species?).
1923 A, 481.
1924 D, 254, 255.
1927 D, 129.
Holmes, W. H. 1903 A, 244 ("wolf").
Lockington, W. N. 1884 A, 417 ("american wolf").
Miller, G. S. 1912 B, 78.
1924 C, 154.
Osborn, H. F. 1910 B, 464 (C. lupus); 488 (C. occidentalis).
Williston, S. W. 1898 I, 92 (C. lupus).

Recent; eastern Nebraska: Pleistocene; Arkansas, Illinois, Kansas, Nebraska, Oklahoma, Oregon.

Some citations under *C. occidentalis* probably belong here. The two species are not well distinguished among the living animals; still less well among the fossils.

Canis occidentalis Richardson.

Hay, O. P. 1902 A, 776.
Baker, F. C. 1920 A, 456 (This species?).
Conwentz, — 1900 A, 431 (C. lupus occ.).
Elliot, D. G. 1901 A, 300.
Frech, F. 1906 A, 483 ("wolf").
Freudenberg, W. 1910 A, 28, 30.
Gray, J. E. 1868 B, 501 (Lupus).
Grevé, C. 1891 A, 409.
Hay, O. P. 1914 A, 38 (This species?); 485, 486 (C. lupus).
1917 E, 60.
1918 C, 347 (This species?).
1923 A, 481.
1924 D, 375.
1927 D, 191, 192, 243.
1928 C, 425.
Huxley, T. H. 1880 D, 439.
Kandern, W. 1905 A, 467, figs. A, C, D.
McCornack, E. C. 1920 A, 23 (This species?).
Matthew, W. D. 1902 F, 320 (This species?).
1918 A, 226 (This species?).
Merriam, J. C. 1912 C, 251.
1918 B, 531.
Miller, G. S. 1912 B, 78.
1912 C, 2, 4.

Miller, G. S. 1924 C, 154.
Nathorst, A. G. 1901 A, 1.
Osborn, H. F. 1910 B, 460 (This species?).
Scott, W. B. 1913 A, 62, fig. 7 (This species?).
Seton, E. T. 1909 A, 749, map 42.
Shufeldt, R. W. 1913 B, 159, pl. x, fig. 25 (This species?).
Stock, C. 1925 A, 195.
Studer, Th. 1901 A, 9.

The citations given above probably refer to more than one species of large wolf. See *C. lycaon*, *C. nubilus*.

Recent; Plains of Saskatchewan to Arctic coast: Pleistocene; Arkansas, Nebraska, California, Oregon.

Canis ochropus Eschscholtz.

Eschscholtz, J. F. 1829, Zool. Atlas, III, 1.
Furlong, E. L. 1925 A, 139 (C. ocropus. This species?).
Hay, O. P. 1927 D, 184, 197, 223.
Merriam, C. H. 1897 B, 32.
Merriam and Stock 1925 A, 11 (This species?).
Miller, G. S. 1912 A, 81.
  1924 C, 153.
Stock, C. 1918 A, 479.
  1925 A, 113, 195.
  1927 A, 156 (This species?).

Recent; San Joaquin Valley; California: Pleistocene (Hawver cave); California.

Canis orcutti Merriam, J. C.

Merriam, J. C. 1910 A, 391.
Abel, O. 1926 B, 237 (C. ochropus orcutti).
Hay, O. P. 1927 D, 184, 191.
Merriam, J. C. 1912 C, 255, pl. xxiv, fig. 2; figs. 34-40 (C. ochropus orcutti).
Merriam and Stock 1921 A, 567 (C. near ochropus).
  1925 A, 10 (C. ochropus orcutti).
Miller, L. H. 1912 A, 78.
Osborn, H. F. 1925 D, 531 (C. ochropus orcutti).
Stock, C. 1925 A, 30 (C. ochropus orcutti).
Swarth, H. S. 1915 A, 17, 18 (C. ochropus orcutti).
Wyman, L. E. 1922 A, 23 (C. ochropus orcutti).

Pleistocene (Early); California.

Canis priscolatrans Cope.

Hay, O. P. 1902 A, 776.
Baker, F. C. 1920 A, 208, 215, 398.
Eaton, G. F. 1923 A, 233.
Freudenberg, W. 1910 A, 23, 30.
Haug, E. 1911 A, 1886.
Hay, O. P. 1923 A, 312, 322.
Osborn, H. F. 1910 B, 470.
Peterson, O. A. 1926 A, 283 (This species?).
Rhoads, S. N. 1903 A, 228.
Schlosser, M. 1902 H, 141.
Trouessart, E. L. 1904 A, 230.
Troxell, E. L. 1915 A, 628, 633, 634, fig. 19 (This species?).

Pleistocene (Early); Pennsylvania, Texas.

Canis riviveronis Hay.

Hay, O. P. 1917 E, 46, 59.
Baker, F. C. 1920 A, 374.
Bédé, P. 1921 A, 15 (C. riverans).
Hay, O. P. 1923 A, 382.
Sellards, E. H. 1916 C, 158, pl. xxviii, figs. 2, 7, 8; text-fig. 15 (C. latrans?).
  1916 D, 617 (C. sp.).
  1916 E, 17 (C. latrans?).
  1916 F, 9 (C. sp.).

Pleistocene; Florida.

Canis robustus (J. A. Allen).

Hay, O. P. 1902 A, 776 (Pachycyon).
Allen, G. M. 1920 A, 452, 495, pls. vi, xi (Pachycyon).

Recent epoch; Virginia.

The skeleton described by Dr. J. A. Allen appears to be that of an Indian dog.

Canis texanus Troxell.

Troxell, E. L. 1915 A, 616, 627, 634, figs. 18, 20, 23.
Hay, O. P. 1924 D, 239.
  1928 C, 425.
Matthew, W. D. 1924 C, 104 (This genus?).

Pleistocene; Texas.

Canis sp. indet.

Anderson, F. M. 1908 A, 35 ("wolf"). Pleistocene; California.
Condon, T. 1902 A, 123, pl. xix ("small dog").
Cooke, C. W. 1926 A, 445 ("dog"). Pleistocene; Florida.
Deussen, A. 1924 A, 110. Pleistocene (Lissie); Texas.
Dumble, E. T. 1894 A, 564. Pleistocene (Plains region); Texas.
Eaton, G. F. 1923 A, 233, fig. 6. Pleistocene; Mexico.
Ford, J. 1878 A, 305. Pleistocene (Loess); Alton, Illinois.
Frick, C. 1921 A, 341, fig. 45 (This genus?). Pliocene (Eden); California.
Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1917 E, 46, 62.
  1923 A, 481. Pleistocene; Pennsylvania, Maryland, South Carolina, Florida.
  1924 D, 375. Pleistocene; Kansas, Nebraska.
McCornack, E. C. 1920 A, 23.
Matthew, W. D. 1909 C, 114. Miocene (Middle); Colorado.
Merriam, J. C. 1906 A, 4, 5, fig. 1.
  1919 A, 462, 527, fig. 9 (This genus?). Miocene (Barstow); California: Pliocene (Ricardo); California.
Merriam and Sinclair 1907 A, 196. Miocene (Mascall?); Oregon.
Osborn, H. F. 1910 B, 463. Pleistocene, Kansas: 490, Pleistocene; Alaska.
Putnam, F. W. 1899 A, 269 ("Indian dogs"). Pleistocene?
Quackenbush, L. S. 1909 A, 97, 127. Pleistocene; Alaska, Yukon.

Sinclair, W. J. 1903 A, 711 ("Lupus sp. nov. Merriam, J. C."). Pleistocene; California.

Stock, C. 1925 A, 21 (This genus?). Lower Pliocene (Eden); California.

ÆNOCYON Merriam, J. C. Type *Canis dirus* Leidy.

Merriam, J. C. 1918 B, 532.
Hay, O. P. 1926 E, 389.
Matthew, W. D. 1924 C, 122, fig. 28.
Moodie, R. L. 1922 C, 360.
Osborn, H. F. 1925 D, 532.

Ænocyon ayersi (Sellards).

Sellards, E. H. 1916 C, 152, 158, pl. xxiv; pl. xxx, figs. 1, 3 (Canis).
Chamberlin, R. T. 1916 A, 38 (Canis).
1917 A, 675 ("wolf").
Hay, O. P. 1920 B, 95, pl. iv, figs. 24-26 (This species?).
1923 A, 479.
1924 B, 259 ("dog").
1927 C, 281 ("dogs").
Merriam, J. C. 1918 B, 532.
Sellards, E. H. 1916 E, 15, 16, 23 (Canis).
1917 A, 249 (Canis).
1917 C, 76 (Canis).
1917 E, 198 ("wolf").
Simpson, G. G. 1928 H, 2, 9, figs. 5, 6 [Canis (Aenocyon)].
Pleistocene (Early); Florida, Tennessee.

Ænocyon dirus (Leidy).

Unless otherwise indicated the authors quoted refer this species to the genus *Canis.*

Leidy, J. 1858 E, 21.
Hay, O. P. 1902 A, 775 (C. dirus; C. indianensis).
Abel, O. 1926 B, 236 (Canis); 438 (Ænocyon).
Baker, F. C. 1920 A, 456 (Canis dirus, C. indianensis).
Bryan, W. A. 1927 A, 79, fig. ("dire wolf").
Collins, H. O. 1910 A, 6 ("wolf").
Cooper, J. G. 1875 A, 390 (C. indianensis).
Cope, E. D. 1894 H, 453, pl. xxi, figs. 14-16 (Canis indianensis).
Eaton, G. F. 1923 A, 233 (C. indianensis).
Freudenberg, W. 1910 A, 22, pl. vi, figs. 2-4 (C. indianensis).
1921 A, 138.
Frick, C. 1926 C, 444, fig. 2 (This species?).
Furlong, E. L. 1925 A, 139, 152.
Gilbert, J. Z. 1910 B, 26, figs. (Canis occidentalis).
Haug, E. 1911 A, 1887 (Canis indianensis).
Hay, O. P. 1912 D, 777, text-figs. 74-77.
1914 A, 484, text-figs. 139-142.
1917 D, 49.
1918 B, 26 (Canis).
1920 B, 95, 141, pl. v, figs. 3, 4.
1923 A, 479 (Ænocyon).
1926 F, 426 ("wolves").
1927 D, 301 (Ænocyon); 303 (Canis).
1928 C, 425.
Lydekker, R. 1913 A, 5 (Canis).
Matthew, W. D. 1913 D, 297, pl.
1914 E, 57, plate ("wolf").
1914 I, 46.
1916 D, 45, 2 figs.
1916 F, 471 ("wolf").
Merriam, J. C. 1903 B, 288, pl. xxx, fig. 2 (C. indianensis).
1906 D, 249 (C. indianensis).
1908 D, 468, fig. ("wolf").
1909 A, 293 (C. indianensis).
1909 C, 11, fig. ("wolf").
1911 F, 210, fig. 1 ("wolf").
1912 C, 218, pls. xxiv-xxviii; text-figs. 1-26.
1918 B, 532 (Ænocyon).
1918 D, 519 (Ænocyon).
Merriam and Stock 1921 A, 567.
1925 A, 10, 11.
Miller, L. H. 1909 B, 306 (C. indianensis).
1912 A, 70, 78 (C. indianensis).
1925 A, 309 ("Ænocyon").
Moodie, R. L. 1918 C, 278, fig. 21 (Canis).
1918 D, 507, figs. 32, 34-36 ("wolf").
1922 C, 361.
1923 B, 253, pl. liv.
Osborn, H. F. 1910 B, 477, 486 (C. indianensis).
1925 D, 528, 532, figs.
Peterson, O. A. 1926 A, 282.
Schuchert and Levene 1927 A, 341.
Scott, W. B. 1913 A, 204, 521; frontispiece.
Sellards, E. H. 1916 C, 153.
Sinclair, W. J. 1904 A, 17 (C. indianensis).
Stock, C. 1925 A, 30, 35, 113.
1927 A, 156 (This species?).
Stoner, R. C. 1913 A, 391 ("dire wolf").
Swarth, H. S. 1915 A, 16, fig. 7 (Canis).
Trouessart, E. L. 1904 A, 229 (Canis).
Troxell, E. L. 1915 A, 616, 632, figs. 16, 17.
Whitney, J. D. 1866 A, 162 ("wolf").
Wyman, L. E. 1922 A, 22, fig. 14.
Young and Cooper 1926 A, 5 ("wolf").
1927 A, 1, 2, 5, 6, fig. (Canis).
Zittel and Schlosser 1911 A, 390 (C. indianensis).
1923 A, 470, 680 (C. indianensis).
Pleistocene (Early and Middle); Indiana, California, Tennessee, Pennsylvania, Mexico.

Ænocyon milleri (Merriam).

Merriam, J. C. 1912 C, 247, figs. 27-31 (Canis).
Abel, O. 1926 B, 237.
Hay, O. P. 1927 D, 184, 191.
Merriam, J. C. 1918 B, 531.
Merriam and Stock 1925 A, 10.
Osborn, H. F. 1925 D, 531 [Canis (Ænocyon)].
Stock, C. 1925 A, 30.
Swarth, H. S. 1915 A, 17 (Canis).
Wyman, L. E. 1922 A, 23.
Pleistocene (LaBrea); California.

Ænocyon mississippiensis (Allen).

Allen, J. A. 1876 A, 49 (Canis).
Hay, O. P. 1902 A, 775 (Canis indianensis, in part).
Freudenberg, W. 1910 A, 23 (Canis).
Hay, O. P. 1914 A, 484 (Canis).
1923 A, 337.

Merriam, J. C. 1912 C, 218 (Canis dirus).
Trouessart, E. L. 1904 A, 229 (Syn. of Canis indianensis).
Troxell, E. L. 1915 A, 633, 634 (Canis).

It is possible that this species is identical with *Ænocyon dirus*.

Pleistocene; Lead region of Illinois, Iowa, and Wisconsin.

Ænocyon sp. indet.

Hay, O. P. 1927 D, 171, 172 (This genus?).

Pleistocene; California.

VULPES Fritsch.

Fritsch, J. L. 1775, Natur-Syst. vierfüss. Thiere, Tab. Gen.
Hay, O. P. 1902 A, 775 (Canis, in part).
Allen, J. A. 1892 A.
 1902 E, 375.
 1903 A.
Altmann, F. 1925 A, 108.
Anderson, R. J. 1902 A, 1121.
 1902 B, 369, fig.
 1905 A, 328.
Arldt, T. 1907 D, 302, 317.
Beddard, F. E. 1902 A, 417.
Beyer, H. 1908 A, 96 ("fuchs").
Birula, A. A. 1913 A, 248, pls. viii-x.
Brandt and Woldrich 1887 A, 42.
Brown, H. G. 1848 B, 1373.
Caush, D. E. 1904 A, 164, fig. 4 ("fox").
Depéret, C. 1909 A, 141.
Doran, A. H. G. 1878 A, 395, pl. lix.
Dubois, E. 1922 A, 319 (Canis vulpes).
Eimer, G. H. T. 1901 A, 258 ("fuchs").
Elliot, D. G. 1901 A, 303.
Geike, J. 1914 A, 322 ("fox").
Geinitz, E. 1903 A.
 1904 A (Canis).
Gidley, J. W. 1913 B, 102.
Grant, M. 1904 B, 194.
Gray, J. E. 1868 B, 495, 515.
Grevé, C. 1891 A, 418 (Canis).
Hasse and Schwarck 1870 A, 97 (Canis vulpes).
Hensel, R. 1879 A, 549 ("fuchs").
Hue, E. 1907 A, pls. xxxiv, lxxvii, lxxxi, xcvi, cx, cxxiv, cxxxiv, cxlvii, clxii, clxxvii.
Huxley, T. H. 1880 D, 407, 453.
Klatt, B. 1912 A, 154 ("fuchs").
Lockington, W. N. 1884 A, 411.
Lönnberg, E. 1916 A, 1, 2 figs.
Lull, R. S. 1922 C, 603.
Matthew, W. D. 1915 K, 402.
 1918 A, 188.
 1924 C, 122, fig. 28.
Merriam, C. H. 1892 A, 62.
 1900 A, 661.
Miller, G. S. 1912 B, 82.
 1923 A, 9, pl. ii, fig. 1; pl. iii, fig. 4.
 1924 C, 143.
Nehring, A. 1880 A (Canis).
Noack, T. 1910 A, 457.
Osborn, H. F. 1909 D, 89, 90.
 1910 B, 635.
 1915 B, 205.
 1916 B, 545.
Pocock, R. I. 1914 B, 925.
Pohl, L. 1911 A, 138.
Retzius, A. 1849 A, 627, fig. 5 (Canis).
Scharff, R. F. 1895 A, 441 (Canis).
Schlosser, M. 1903 I, 209, 211.
 1906 A, 25.
Schmidt, O. 1886 A, 261, fig. 48 ("fox").
Scott, W. B. 1913 A, 149, 150, 158, 517.
 1917 A, 32.
Serres, M. 1835 A, 244 ("fox").
Taschenberg, O. 1899 A, 4704.
Trouessart, E. L. 1904 A, 235.
Virchow, H. 1907 A, 46 ("fuchs").
 1917 B, 321, figs. 1-9, 12 ("fuchs").
Weber and Abel 1928 A, 325.
Winge, H. 1924 A, 193.
Zittel and Schlosser 1911 A, 390.
 1923 A, 470.

Vulpes cascadensis C. H. Merriam.

Merriam, C. H. 1900 A, 665, pl. xxxvi, fig. 3.
Freudenberg, W. 1910 A, 30.
Hay, O. P. 1927 D, 314 (V. cascadensis); 243 (V. pennsylvanicus).
Matthew, W. D. 1902 F, 320 (V. pennsylvanicus?).
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 83.
 1924 C, 144.
Miller, L. H. 1912 A, 70.
Osborn, H. F. 1910 B, 477.
Sinclair, W. J. 1903 A, 711.
 1904 A, 17.
Stock, C. 1925 A, 113.

Recent; Oregon, Washington, California: Pleistocene (caves); California.

Vulpes fulva (Desmarest).

Desmarest, A. G. 1822 A (1820), I, 203 (Canis).
Brown, B. 1908 A, 182 (This species?).
Elliot, D. G. 1901 A, 304 (V. pennsylvanica).
Fischer, J. B. 1829 A, 191 (Canis).
Freudenberg, W. 1910 A, 28 (V. pennsylvanicus?).
Gray, J. E. 1868 B, 518 (V. pennsylvanica).
Grevé, C. 1891 A, 419 (Canis).
Hay, O. P. 1914 A, 32.
 1917 E, 58.
 1923 A, 299.
 1924 D, 252.
 1927 D, 192.
Hrdlička, A. 1903 A, 372 (V. fulvus).
Lockington, W. N. 1884 A, 413 ("red fox").
Lockwood, S. 1884 A, 353, fig. 172.
Merriam, C. H. 1900 A, 663, pl. xxxvii.
Miller, G. S. 1912 B, 82.
 1924 C, 144.
Miller, L. H. 1912 A, 81 (Canis pennsylvanicus?).

Stock, C. 1925 A, 195 (This species?. V. pennsylvanicus).

Recent; northeastern United States: Pleistocene; Arkansas, Nebraska.

All references of fox remains found west of the Alleghany Mountains to this species are of doubtful correctness.

Vulpes latidentata Cope.

Hay, O. P. 1902 A, 775 (Canis).
Baker, F. C. 1920 A, 208, 215, 398 (Canis).
Freudenberg, W. 1910 A, 30.
Hay, O. P. 1917 E, 58.
1923 A, 312, 314 (Urocyon, *errore*).
Rhoads, S. N. 1903 A, 229.
Schlosser, M. 1902 H, 141.
Trouessart, E. L. 1904 A, 238.
Pleistocene (Early); Pennsylvania.

Vulpes palmaria Hay.

Hay, O. P. 1917 E, 46, 57.
Baker, F. C. 1920 A, 374 (V. palmoria).
Hay, O. P. 1923 A, 382.
1927 D, 274.
Loomis, F. B. 1924 C, 506.
Sellards, E. H. 1916 C, 132, 152, 158, pl. xxx, fig. 4 (V. pennsylvanicus?).
1916 D, 617 (V. pennsylvanicus?).
1916 E, 17 (V. sp.).
1916 F, 7, 9 (V. pennsylvanicus?).
Pleistocene (Early); Florida.

Vulpes sp. indet.

Furlong, E. L. 1904 A, 54.
1906 A, 243. Pleistocene (Samwel Cave); California.
Hay, O. P. 1923 A, 350 (This genus?). Pleistocene; Maryland.
1927 D, 214. Pleistocene; California.
Miller, L. H. 1912 A, 73. Pleistocene (Samwel Cave); California.

UROCYON Baird. Type *Canis cinereoargenteus* Schreber.

Baird, S. F. 1857 A, 121, 138.
Allen, J. A. 1892 A.
Elliot, D. G. 1901 A, 307.
Grant, M. 1904 B, 194.
Gray, J. E. 1868 B, 495.
Gregory, W. K. 1921 A, 77.
Ihering, H. 1910 A, 164.
Kingsley, J. S. 1925 A, 210, fig. 222.
Matthew, W. D. 1915 K, 402.
1918 A, 189.
Merriam, C. H. 1892 A, 61.
Merriam, J. C. 1906 A, 9.
Miller, G. S. 1912 B, 85.
1924 C, 147.
Osborn, H. F. 1909 D, 89, 90.
1910 B, 477, 488, 528.
Palmer, T. S. 1904 A, 701, 826.
Scott, W. B. 1913 A, 162, 165, 517.
Trouessart, E. L. 1904 A, 239.

Urocyon californicus (Mearns).

Mearns, E. A. 1897, Proc. U. S. Nat. Mus., xx, 459 (U. cinereoargenteus californicus).
Abel, O. 1926 B, 237.
Hay, O. P. 1927 D, 184, 191.
Merriam, J. C. 1912 C, 262, fig. 43.
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 85.
1924 C, 147.
Osborn, H. F. 1925 D, 531.
Stock, C. 1925 A, 30.
1927 A, 156 (This species?).
Swarth, H. S. 1915 A, 18.
Wyman, L. E. 1922 A, 23.
Recent; Southern California: Pleistocene (La Brea); California.

Urocyon californicus townsendi Merriam, C. H.

Merriam, C. H. 1899, N. A. Fauna, No. 16, 103.
Elliot, D. G. 1901 A, 309 (U. townsendi).
Furlong, E. L. 1904 A, 55 (U. townsendi).
1906 A, 245 (U. townsendi).
Hay, O. P. 1927 D, 214, 215 (U. cinereoargenteus townsendi).
Merriam and Stock 1925 A, 10 (U. cinereoargenteus townsendi).
Miller, G. S. 1912 B, 86.
1924 C, 147.
Miller, L. H. 1912 A, 70, 73 (U. townsendi).
Osborn, H. F. 1910 B, 477 (U. townsendi).
Sinclair, W. J. 1903 A, 711 (U. townsendi).
1904 A, 17 (U. townsendi).
Stock, C. 1925 A, 113 (U. cinereoargenteus townsendi).
Recent; northern California: Pleistocene; California.

Urocyon cinereoargenteus (Schreber).

Schreber, J. C. D. 1775, Säugethiere, III, pl. xcii (Canis).
Hay, O. P. 1902 A, 775 (Canis cinereoargentatus).
Baker, F. C. 1920 A, 208, 215, 354 (Canis cinereoargentatus); 474 (Urocyon cinereoargentatus).
Cope, E. D. 1895 G, 596 (Vulpes virginianus).
Elliot, D. G. 1901 A, 307.
Fischer, J. B. 1829 A, 191 (Canis).
Foote, J. S. 1916 A, 145, pl. xx ("greyfox").
Frech and Geinitz 1903 A (Canis).
Freudenberg, W. 1910 A, 28, pl. v, figs. 1, 12; pl. vii, figs. 5, 6 (U. cinereoargentatus).
1921 A, 138 (U. cinereoargentatus).
1922 A, 4 (U. cinereoargentatus).
Giebel, C. G. 1883 A, pl. xii (Canis cinereoargentatus).
Gray, J. E. 1868 B, 522 (U. virginianus).
Grevé, C. 1891 A, 421 (Canis virginianus).
Hay, O. P. 1923 A, 498.
Huxley, T. H. 1880 D, 416, 426, 454 (Canis, Vulpes).
Leidy, J. 1889 H, 18 (Vulpes virginianus).

Lockington, W. N. 1884 A, 411 (Vulpes cinereoargentatus).
Mercer, H. C. 1894 A, 97 ("grayfox").
Miller, G. S. 1912 B, 86.
1924 C, 147.
Rhoads, S. N. 1903 A, 229.
Recent (Type form); eastern North America: Pleistocene; Pennsylvania, Illinois, Mexico?.

Urocyon sp. indet.

Brown, B. 1908 A, 183. Pleistocene (Middle); Arkansas.
Freudenberg, W. 1910 A, 30. Pleistocene; Arkansas.
Gidley, J. W. 1927 E, 274.
Hay, O. P. 1914 A, 32.
1924 D, 252. Pleistocene; Arkansas.
1927 D, 274. Pleistocene; Florida.
Osborn, H. F. 1910 B, 488. Pleistocene (Middle); Arkansas.
Simpson, G. G. 1928 H, 2 (This genus?). Pleistocene (Early); Florida.

SIMOCYONINÆ Trouessart.

Trouessart, E. L. 1897 A, 291.
Hay, O. P. 1902 A, 770.
Beddard, F. E. 1902 A, 423.
Matthew, W. D. 1907 A, 181.
1924 C, 122, fig. 28.
Merriam, J. C. 1908 A, 32.
Osborn, H. F. 1910 B, 529 ("Cyon or dhole-like group").
Trouessart, E. L. 1904 A, 221.
Zittel, K. A. 1893 B, 632.

ICTICYON Lund. Type not selected.

Lund, P. W. 1843, Overs. k. Danske Vid. Selsk. Forh., Kjöbenh. 1842 (1843), No. 6, 80.
Frick, C. 1926 A, 17.
Matthew, W. D. 1902 C, 285, 286.
1907 A, 180, 181, 192.
1915 A, 217.
1924 C, 120.
Matthew and Cook 1909 A, 377.
Nicholson and Lydekker 1889 A, 1436.
Osborn, H. F. 1910 B, 296, 529.
Palmer, T. S. 1904 A, 347, 824.
Scott, W. B. 1913 A, 683.
Trouessart, E. L. 1904 A, 341.
Winge, H. 1924 A, 194, 243, 248 (Ictidocyon).
Zittel, K. A. 1893 B, 631.

Icticyon? sp. indet.

Matthew, W. D. 1902 C, 285 (Cyon? or Icticyon?).
1909 C, 114.
Miocene (Middle); Colorado.

CUON Hodgson. Type *C. primævus* Hodgson.

Hodgson, B. H. 1838, Ann. Nat. Hist., I, 152.
Agassiz, L. 1846, Nomencl. Zoolog. 1st ed. 108 (Cuon); 113 (Cyon).
Blanford, W. T. 1888, Fauna Brit. India Mamm., pt. i, 142-147 (Cyon).
Matthew, W. D. 1904 C, 249 (Cyon).
1907 A, 180, 181, 192 (Cyon).
1909 C, 118 (Cyon? or Icticyon?).
1915 A, 219, 266 (Cyon?).
Matthew, W. D. 1924 C, 120, 122, fig. 28 (Cyon).
Osborn, H. F. 1910 B, 296, 529 (Cyon).
Studer, Th. 1901 A, 7.

Cuon sp. indet.

Barbour and Cook 1917 A, 172 (Cyon sp. indet); Miocene (Devil's Gulch); Nebraska.
Matthew, W. D. 1909 C, 114 ("Cyon or Icto-cyon sp."). Miocene (Middle); Colorado.

DAPHŒNUS Leidy. Type *D. vetus* Leidy.

Hay, O. P. 1902 A, 772.
Beddard, F. E. 1902 A, 424 (Daphænus).
Frick, C. 1926 A, 6 (Daphænus).
Gregory, W. K. 1920 A, 149, fig. 80.
Hatcher, J. B. 1902 F, 66, 105 (Daphœnus); 95, 105 (Proamphicyon, type P. nebrascensis); 99, 105 (Protemnocyon, type P. inflatus).
Haug, E. 1911 A, 1528 (Daphænus).
Jepsen, G. L. 1926 A, 1.
Lydekker, R. 1904 C, 62, fig. 2 (Daphænus).
Matthew, W. D. 1901 B, 369, 370, 445 (Daphænus).
1902 C, 286.
1903 D, 912 (Daphænus, Protemnocyon, Proamphicyon).
1906 C, 214, 216, text-fig. 6 (Daphænus).
1907 A, 181, 192, 200 (Daphænus).
1909 C, 110 (Daphænus).
1909 D, 353 (Daphænus).
1912 B. 182.
Matthew, W. D. 1915 A, 219 (Daphænus).
1915 K, 420 (Daphænus).
1918 A, 190 (Proamphicyon a syn.).
1924 C, 106, 109, 114, 116, 119, 122.
1924 E, 748.
1928 B, 974, fig. 13.
Merriam, J. C. 1906 A, 27, 58, 59 (Daphœnus); 28, 58 (Protemnocyon); 59 (Proamphycyon).
Moodie, R. L. 1916 E, 135, fig. 5 (Daphænus).
1922 C, 360 (Daphænus).
1923 B, 246 (Daphænus).
O'Harra, C. C. 1910 A, 79, 146.
Osborn, H. F. 1907 G, 139, fig. 96.
1909 D, 61, 63 (Daphænus).
1910 B, 213, 222, 529, fig. 109 (Daphænus).
Palmer, T. S. 1904 A, 216, 824 (Daphœnus); 579, 825 (Protemnocyon).
Peterson, O. A. 1910 A, 261 (Protemnocyon, Proamphicyon).
Pohle, H. 1920 A, 48 (Daphænus).

Romer, A. S. 1924 B, 235, fig. 1.
Schlosser, M. 1898 I, 516 (Daphænus).
1902 A, 136, 138 (Daphænus).
1902 B, 297 (Daphænus).
1904 B, 449 (Daphænus).
Scott, W. B. 1913 A, 679.
Sinclair, W. J. 1924 A, 106.
Stromer, E. 1902 A, 238, 270 (Daphænus).
1902 B, 561 (Daphænus).
Thorpe, M. R. 1922 C, 166, 173.
1922 D, 375.
Trouessart, E. L. 1904 A, 217 (Daphænus).
Weber, M. 1904 A, 542.
Weber and Abel 1928 A, 340 (Daphænus).
Winge, H. 1924 A, 177, 193, 243.
Wortman, J. L. 1901 A, 202 (Daphænus).
1901 B, XI, 339, 448.
Zittel and Schlosser 1911 A, 386 (Protemnocyon); 388 (Daphænus).
1923 A, 468 (Daphænus); 467 (Protemnocyon).

Daphœnus dodgei Scott.

Hay, O. P. 1902 A, 772.
Cook, H. J. 1912 D, 34.
Hatcher, J. B. 1902 F, 95 (Daphænus).
Matthew, W. D. 1909 C, 103 (Daphænus).
O'Harra, C. C. 1920 A, 149.
Schlosser, M. 1904 B, 449 (Daphænus).
Trouessart, E. L. 1904 A, 217 (Daphænus).
Wortman, J. L. 1901 B, XI, 449, 450.
Oligocene (Chadron); Nebraska.

Daphœnus felinus Scott.

Hay, O. P. 1902 A, 772.
Anonymous 1910 A, 197.
Cook, H. J. 1912 D, 36.
Giebel, C. G. 1883 A, pl. li (Dinictis).
Hatcher, J. B. 1902 F, 65, 68, pl. xiv; pl. xvi, figs. 2-5; pl. xvii; pl. xviii, figs. 1, 4, 5; pls. xix, xx; text-figs. 1, 3-5 (Daphænus).
1903 C. 570.
Lambe, L. M. 1908 A, 11, 62, pl. viii, figs. 15, 16 (Daphænus).
Matthew, W. D. 1903 D, 912 (Daphænus).
1909 C, 105 (Daphænus).
Merriam, J. C. 1906 A, 27.
Moodie, R. L. 1916 E, 141 (Daphænus).
1918 C, 279 (Daphænus).
1918 D, 506, figs. 38, 39 (Daphænus).
1922 C, 359 (Daphænus).
1923 B, 247, 272, pl. liii (Daphænus).
O'Harra, C. C. 1910 A, 80, pl. xxv.
1920 A, 151, pl. xiii.
Peterson, O. A. 1909 B, 621.
1910 A, 208.
Romer, A. S. 1924 B, 235, fig. 1.
Scott, W. B. 1913 A, 523, 524, figs. 256, 257 (Daphænus).
Sinclair, W. J. 1924 A, 108.
Trouessart, E. L. 1904 A, 217 (Daphænus).
Oligocene (White River); South Dakota.

Daphœnus hartshornianus (Cope).

Hay, O. P. 1902 A, 772.
Cook, H. J. 1912 D, 36.
Cope, E. D. 1884 O, 896, 906, pl. lxx, fig. 12 (Amphicyon).
Hatcher, J. B. 1902 F, 65.
Lambe, L. M. 1908 A, 11, 63, pl. vii, figs. 17-20 (Protemnocyon).
Lydekker, R. 1884 A, 247 (Amphiycon).
Matthew, W. D. 1901 B, 357 (Daphænus).
1909 C, 105 (Daphænus).
Merriam and Sinclair 1907 A, 184 (Amphicyon).
O'Harra, C. C. 1920 A, 151.
Osborn, H. F. 1921 D, 3, fig. 2.
Romer, A. S. 1924 B, 235, fig. 1.
Sinclair, W. J. 1924 A, 101, 108, 111.
Thorpe, M. R. 1922 E, 429.
Trouessart, E. L. 1904 A, 217 (Daphænus).
Oligocene (Brule); Colorado, Nebraska.

Daphœnus inflatus (Hatcher).

Hatcher, J. B. 1902 F, 99, pl. xv; pl. xviii, figs. 6-8 (Protemnocyon).
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1920 A, 151.
Trouessart, E. L. 1904 A, 218 (Protemnocyon).
Middle Oligocene (Brule); South Dakota, Nebraska, etc.

Daphœnus nebrascensis (Hatcher).

Hatcher, J. B. 1902 F, 95, figs. 6, 7 (Proamphicyon).
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1909 C, 105 (Daphænus).
O'Harra, C. C. 1920 A, 151.
Sinclair, W. J. 1924 A, 107, 108 (Proamphicyon).
Trouessart, E. L. 1904 A, 218 (Proamphicyon).
Middle Oligocene (Brule); South Dakota, Nebraska.

Daphœnus robustus Scott.

Hay, O. P. 1902 A, 772.
Trouessart, E. L. 1904 A, 217 (Daphænus).
Oligocene (White River); Colorado.

Daphœnus vetus Leidy.

Hay, O. P. 1902 A, 772.
Cook, H. J. 1912 D, 36 (D. vitus).
Hatcher, J. B. 1902 F, 65.
Matthew, W. D. 1901 B, 357 (Daphænus).
1909 C, 105 (Daphænus).
Merrill, G. P. 1907 A, 32 (Amphicyon, Daphœnus).
O'Harra, C. C. 1920 A, 151.
Romer, A. S. 1924 B, 235, fig. 1.
Schlosser, M. 1904 B, 449.
Sinclair, W. J. 1924 A, 101, figs. 2-4.
Thorpe, M. R. 1922 E, 428.
1923 D, 98, figs. 3, 4.
Trouessart, E. L. 1904 A, 217 (Daphænus).
Wortman, J. L. 1901 B, XI, 448, 450, pl. ii.
Oligocene (Middle); Nebraska, Colorado.

Daphœnus sp. indet.

Matthew, W. D. 1909 C, 103 (Daphænus).
Oligocene (Lower); Montana?

PARADAPHÆNUS Matthew. Type *Canis cuspigerus* Cope.

Hay, O. P. 1902 A, 772.
Matthew, W. D. 1909 C, 110.
1924 C, 122, 128, fig. 28.
Merriam, J. C. 1906 A, 58, 59.
Palmer, T. S. 1904 A, 512, 825.
Peterson, O. A. 1910 A, 260 (Paradaphœnus).
Schlosser, M. 1902 A, 136.
Thorpe, M. R. 1922 C, 166, 173.
Wortman, J. L. 1901 A, 201.
Zittel and Schlosser 1911 A, 388.
1923 A, 468.

Paradaphænus cuspigerus (Cope).

Hay, O. P. 1902 A, 772.
Lydekker, R. 1884 A, 247 (Amphicyon cuspigerus, A. entoptychi).
Matthew, W. D. 1909 C, 106.
Merriam, J. C. 1906 A, 5.
Merriam and Sinclair 1907 A, 184.
Seeley, H. G. 1886 A, 517 (Amphicyon).
Upper Oligocene (John Day); Oregon.

Paradaphænus transversus Wortman and Matthew.

Hay, O. P. 1902 A, 772.
Matthew, W. D. 1909 C, 106.
Thorpe, M. R. 1922 C, 166.
Upper Oligocene (John Day); Oregon.

TEMNOCYON Cope. Type *T. altigenis* Cope.

Hay, O. P. 1902 A, 773.
Cook, H. J. 1909 D, 262.
Cope, E. D. 1880 U, 156.
Haug, E. 1911 A, 1705.
Heilprin, A. 1887 A, 388.
Lydekker, R. 1908 A, 506.
Matthew, W. D. 1902 C, 286.
1903 D, 913.
1904 C, 249.
1907 A, 180, 181, 192.
1909 C, 110.
1924 C, 103, 119, 122, fig. 28.
1924 E, 748.
Merriam, J. C. 1906 A, 24, 27, 58, 59.
Osborn, H. F. 1905 I, 103.
1909 D, 68.
1910 B, 230, 529.
1912 G, 246.
Palmer, T. S. 1904 A, 668, 826.
Peterson, O. A. 1910 A, 259.
Pilgrim, G. E. 1912 A, 14.
Schlosser, M. 1898 I, 514.
1902 A, 135, 136.
1902 B, 299.
1903 I, 26, 176, 211.
1904 B, 449.
Scott, W. B. 1913 A, 528, 530.
Seeley, H. G. 1886 A, 517.
Stromer, E. 1902 B, 554, 561.
Thorpe, M. R. 1922 D, 375.
Weber, M. 1904 A, 542.
Winge, H. 1924 A, 177, 193, 243.
Wortman, J. L. 1901 B, xi, 450.
Zittel and Schlosser 1911 A, 387.
1923 A, 467.

Temnocyon altigenis Cope.

Hay, O. P. 1902 A, 773.
Cook, H. J. 1909 D, 264.
Matthew, W. D. 1903 D, 913.
1909 C, 107.
Merriam, J. C. 1906 A, 4, 5, 21, 25, 26, 29, pl. iii, fig. 2; text-figs. 7-11.
Merriam and Sinclair 1907 A, 184, 188, 189, 191, 192.
Schlosser, M. 1898 I, 515.
Thorpe, M. R. 1922 C, 167.
Upper Oligocene (John Day); Oregon.

Temnocyon ferox Eyerman.

Hay, O. P. 1902 A, 773.
Condon, T. 1896 A, 12, pl. small fig. (Canis shoshonensis).
1902 A, 123, pl. xviii, small fig. (Canis shoshonensis).
1910 A, 103, pl. xviii, small fig. (Canis shoshonensis, Temnocyon ferox).
Matthew, W. D. 1903 D, 913.
1909 C, 107.
Merriam, J. C. 1906 A, 4, 5, 22, 29.
Merriam and Sinclair 1907 A, 184, 191, 192.
Schlosser, M. 1898 I, 515.
Trouessart, E. L. 1904 A, 218.
Upper Oligocene (John Day); Oregon.

Temnocyon percussor Cook.

Cook, H. J. 1909 D, 266, fig. 3.
1912 D, 40.
O'Harra, C. C. 1920 A, 155.
Lower Miocene (Harrison); Nebraska.

Temnocyon venator Cook.

Cook, H. J. 1909 D, 262, figs. 1, 2.
1912 D, 40.
O'Harra, C. C. 1920 A, 155.
Lower Miocene (Harrison); Nebraska.

Temnocyon wallovianus Cope.

Hay, O. P. 1902 A, 773.
Cook, H. J. 1909 D, 264.
Matthew, W. D. 1909 C, 107.
Merriam, J. C. 1906 A, 5, 23, 29.
Merriam and Sinclair 1907 A, 184.
Schlosser, M. 1898 I, 515.
Trouessart, E. L. 1904 A, 218.
Upper Oligocene (John Day); Oregon.

Temnocyon sp. indet.

Barbour and Cook 1917 A, 172. Pliocene (Snake Creek); Nebraska.

EUOPLOCYON Matthew. Type *E. prædator* Matthew.

Matthew, W. D. 1924 C, 103, 109, 122.

Euoplocyon prædator Matthew.

Matthew, W. D. 1924 C, 65, 71, 103, fig. 28.
1902 C, 285 ("Cyon?").
Upper Miocene (Lower Snake Creek); Nebraska.

Euoplocyon magnus (Thorpe).

Thorpe, M. R. 1922 E, 440, figs. 9-11 (Ælurodon taxoides magnus).
Matthew, W. D. 1924 C, 104 (To Euoplocyon).
Upper Miocene (Valentine); Nebraska.

Euoplocyon sp. indet.

Matthew, W. D. 1924 C, 71. Upper Miocene (Pawnee Creek); Colorado.

ENHYDROCYON Cope. Type *E. stenocephalus* Cope.

Hay, O. P. 1902 A, 770 (Enhydrocyon, Hyænocyon).
Beddard, F. E. 1902 A, 423.
Matthew, W. D. 1904 C, 249 (Enhydrocyon, Hyænocyon).
1907 A, 170, 174, 180, 181, 189, 190 (Hyænocyon a syn.).
1909 C, 111, 118.
1924 C, 103, 109, 119, 122, fig. 28.
1924 E, 748.
Merriam, J. C. 1906 A, 33, 58, 59 (Enhydrocyon, Hyænocyon).
O'Harra, C. C. 1910 A, 80, 130.
Osborn, H. F. 1909 D, 75.
1910 B, 230, 236, 529.
Palmer, T. S. 1904 A, 259, 824 (Enhydrocyon); 333, 824 (Hyænocyon).
Peterson, O. A. 1910 A, 260 (Enhydrocyon, Hyænocyon).
Pilgrim, G. E. 1912 A, 13.
Schlosser, M. 1902 A, 135, 137 (Enhydrocyon, Hyænocyon).
1902 B, 299.
Scott, W. B. 1913 A, 528, 530.
Seeley, H. G. 1886 A, 517.
Thorpe, M. R. 1922 D, 375.
Weber, M. 1904 A, 542 (Enhydrocyon, Hyænocyon).
Wortman, J. L. 1901 B, XI, 449 (Enhydrocyon, Hyænocyon).
Zittel and Schlosser 1911 A, 388.
1923 A, 469.

Enhydrocyon basilatus Cope.

Hay, O. P. 1902 A, 770 (Hyænocyon).
Matthew, W. D. 1907 A, 190.
1909 C, 107.
Merriam, J. C. 1906 A, 5 (Hyænocyon).
Merriam and Sinclair 1907 A, 184 (Hyænocyon).
Trouessart, E. L. 1904 A, 222 (Hyænocyon).
Oligocene (John Day); Oregon.

Enhydrocyon crassidens Matthew.

Matthew, W. D. 1907 A, 171, 190, figs. 6, 7.
1909 C, 112.
O'Harra, C. C. 1920 A, 155.
Thorpe, M. R. 1922 C, 175.
Miocene (Lower); South Dakota.

Enhydrocyon oregonensis Thorpe.

Thorpe, M. R. 1922 C, 173, figs. 4, 5.
Upper Oligocene (Middle John Day); Oregon.

Enhydrocyon sectorius Cope.

Hay, O. P. 1902 A, 770 (Hyænocyon).
Matthew, W. D. 1907 A, 189, 190.
1909 C, 107.
Merriam, J. C. 1906 A, 5 (Hyænocyon).
Merriam and Sinclair 1907 A, 184 (Hyænocyon).
Oligocene (Upper); Oregon.

Enhydrocyon stenocephalus Cope.

Hay, O. P. 1902 A, 770.
Matthew, W. D. 1907 A, 189.
1909 C, 107.
Merriam, J. C. 1906 A, 5.
Merriam and Sinclair 1907 A, 184.
Sternberg, C. 1881 C, 416.
1909 C, 189.
Thorpe, M. R. 1922 C, 174.
Trouessart, E. L. 1904 A, 221.
Oligocene (John Day); Oregon.

ARÆOCYON Thorpe. Type *Pliocyon marshi* Thorpe.

Thorpe, M. R. 1922 A, 97 (To replace *Pliocyon*, preoccupied).
Matthew, W. D. 1924 C, 102.
Merriam, Stock, Moody 1925 A, 47.
Thorpe, M. R. 1922 D, 371.

Aræocyon marshi Thorpe.

Thorpe, M. R. 1921 C, 477, figs. 1-3 (Pliocyon).
1922 A, 97.
1922 D, 371.
Pliocene (Rattlesnake); Oregon.

PHILOTROX Merriam, J. C. Type *P. condoni* Merriam.

Merriam, J. C. 1906 A, 30, 59.
Matthew, W. D. 1907 A, 181.
1909 C, 110.
1924 C, 109, 120.
Osborn, H. F. 1909 D, 68.
Peterson, O. A. 1910 A, 260.
Zittel and Schlosser 1911 A, 387 (Philothrax).
1923 A, 467 (Philothrax).

Philotrox condoni Merriam.

Merriam, J. C. 1906 A, 4, 5, 30, figs. 12-14.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 184, 188, 189.
Thevenin, A. 1907 A, 216 (Philothrox coudoni).
Thorpe, M. R. 1922 C, 165.
Upper Oligocene (Middle John Day); Oregon.

AMPHICYONINÆ.

Arldt, T. 1912 A, 748.
Frick, C. 1926 A, 7, 13.
Matthew, W. D. 1907 A, 181.
1909 D, 401, 415, 416.
1915 A, 219.
1924 C, 115, 116, 122, fig. 28.
Osborn, H. F. 1909 D, 77.
Trouessart, E. L. 1904 A, 218.
Weber and Abel 1928 A, 328.
Zittel, K. A. 1893 B, 635 (Amphicyoninæ).
Zittel and Schlosser 1911 A, 387.
1923 A, 467, 668, 670.

PLIOCYON Matthew. Type *P. medius* Matthew.

Matthew, W. D. 1918 A, 190.
Frick, C. 1926 A, 35 (Syn. of Hemicyon, in part).
Matthew, W. D. 1924 C, 106, 113, 114, 116, 122, 127, fig. 28.
Stock and Furlong 1926 A, 45.
Zittel and Schlosser 1923 A, 468, 679.

Pliocyon gidleyi (Matthew).

Matthew, W. D. 1902 A, 130, figs. 1-4 (Dinocyon).
Gidley, J. W. 1903 C, 634 (Dinocyon).
Matthew, W. D. 1902 C, 290 (Dinocyon ?, Borophagus ?).
1909 C, 155 (Dinocyon).
1924 C, 105, 116 [Pliocyon (Dinocyon)].
Osborn, H. F. 1904 F, 22 (Dinocyon).
Stock and Furlong 1926 A, 45 (Pliocyon, Dinocyon).
Trouessart, E. L. 1904 A, 219 (Dinocyon).
Miocene (Clarendon); Texas.

Pliocyon meandrinus (Hatcher).

Hay, O. P. 1902 A, 774 (Ælurodon).
Gidley, J. W. 1903 C, 634 (Dinocyon).
Matthew, W. D. 1902 A, 130 (Canis); 132 (Dinocyon).
1902 C, 289 [Dinocyon ? (Borophagus)].
1904 C, 252 (Ælurodon ?).
1909 C, 115.
1924 C, 114 (P. mæandrinus).
Merriam, J. C. 1917 A, 438 (Dinocyon).
Stock and Furlong 1926 A, 45, 49 (Ælurodon).
Trouessart, E. L. 1904 A (Dinocyon).
Miocene (Upper); Nebraska, Kansas, Texas.

Pliocyon medius Matthew.

Matthew, W. D. 1918 A, 185, 192, fig. 2.
Frick, C. 1926 A, 42.
Matthew, W. D. 1924 C, 65, 106, 113, 114, 116.
Stock and Furlong 1926 A, 48.
Upper Miocene (Lower Snake Creek); Nebraska.

Pliocyon sp. indet.

Matthew, W. D. 1918 A, 185 ("P. sp. max.").
Pliocene (Upper Snake Creek); Nebraska.
1924 C, 65.

HADROCYON Stock and Furlong. Type *H. mohavensis* Stock and Furlong.

Stock and Furlong 1926 A, 45, 51.
Furlong, E. L. 1927 A, 174.

Hadrocyon mohavensis Stock and Furlong.

Stock and Furlong 1926 A, 45, pls. vii, viii.
Stock, C. 1928 D, 43, pl. i, fig. *a* ("Hadrocyon").
Pliocene (Ricardo); California.

DAPHŒNODON Peterson. Type *Amphicyon superbus* Peterson.

Peterson, O. A. 1909 B, 620.
Matthew, W. D. 1912 B, 182.
1918 A, 192, 194.
1924 C, 106, 114, 115, 122, fig. 28.
Moodie, R. L. 1916 E, 142.
1923 B, 246 (Daphænodon).
Osborn, H. F. 1910 B, 236, 529.
Peterson, O. A. 1910 A, 258.
Scott, W. B. 1913 A, 525, 526, 530.
Zittel and Schlosser 1911 A, 388 (Syn. of Daphœnus).
1923 A, 468 (Syn. of Daphœnus).

Daphœnodon periculosus Cook.

Cook, H. J. 1909 D, 268, fig. 4.
1912 D, 40.
O'Harra, C. C. 1920 A, 155.
Miocene (Lower Harrison); Nebraska.

Daphœnodon superbus Peterson.

Peterson, O. A. 1906 C, 51 (Amphicyon).
Barbour and Cook 1917 B, 180, figs. 9-11 (Daphænodon).
Cook, H. J. 1909 D, 268 (D. supurbus).
1912 D, 40 (Daphœnodon supurbus).
Loomis, F. B. 1910 B, 298.
Lull, R. S. 1917 B, 637.

O'Harra, C. C. 1920 A, 79, 155, pl. xxvi; text-figs. 23, 25.
Peterson, O. A. 1909 B, 620.
1910 A, 206, 207, pls. lxxiv-lxxxiv; text-figs. 2-5, 7-9, 11-55.
Scott, W. B. 1913 A, 525, fig. 259.
Stock and Furlong 1926 A, 46.
Zittel and Schlosser 1923 A, 468 (Daphænus superbus).
Miocene (Lower Harrison); Nebraska.

HYÆNOGNATHUS Merriam. Type *H. pachyodon* Merriam.

Merriam, J. C. 1903 B, 278.
Cook, H. J. 1922 B, 4 (Hyænognathus, Porthocyon).
Freudenberg, W. 1910 A, 18.
Frick, C. 1926 A, 17.
Hay, O. P. 1923 A, 15.
Matthew, W. D. 1904 C, 249.
1924 C, 102, 122, fig. 28.
Matthew and Cook 1909 A, 372.
Merriam, J. C. 1915 E, 233.
1917 A.
1919 A, 538.
Scott, W. B. 1913 A, 522, 524, 530.
Thorpe, M. R. 1922 D, 377.
Winge, H. 1924 A, 177, 194, 243.
Zittel and Schlosser 1911 A, 388.
1923 A, 468, 680, 681.

Hyænognathus cyonoides Martin.

Martin, H. T. 1928 A, 235, pl. xxi.
Pliocene; Kansas.

Hyænognathus direptor Matthew.

Matthew, W. D. 1924 C, 65, 100, fig. 20.
Lower Pliocene (Upper Snake Creek); Nebraska.

Hyænognathus? dubius Merriam, J. C.

Merriam, J. C. 1903 B, 283, pls. xxix, xxx, fig. 1 [H. ? (Porthocyon)].
Cook, H. J. 1922 B, 4 (Porthocyon).
Freudenberg, W. 1910 A, 18.
Freudenberg, W. 1921 A, 138.
Merriam, J. C. 1919 A, 538 [H. (Porthocyon)].
Trouessart, E. L. 1904 A, 219 [H. (Porthocyon?)].
Late Pliocene (Contra Costa County); California.

Hyænognathus matthewi Freudenberg.

Freudenberg, W. 1910 A, 17, pl. v, figs. 3, 4 [H. (Porthocyon)].
1922 A, 4 (H. mathewi).
Haug, E. 1911 A, 1887.
Pleistocene?; Mexico.

Hyænognathus pachyodon Merriam, J. C.

Merriam, J. C. 1903 B, 278, pl. xxviii, figs. 1, 2; text-figs. 1, 3.
Cook, H. J. 1922 B, 4.
Freudenberg, W. 1910 A, 21.
Matthew, W. D. 1924 C, 102.
Matthew and Cook 1909 A, 37.
Merriam, J. C. 1917 A, 425.
Thorpe, M. R. 1922 D, 376.
Trouessart, E. L. 1904 A, 219.
Pliocene (Tulare ?); California.

Hyænognathus pugnator (Cook).

Cook, H. J. 1922 B, 6, 18-20, 3 figs. (Porthocyon).
Matthew, W. D. 1924 C, 102 (Porthocyon, Ælurodon).
Pliocene (Snake Creek); Colorado.

CYNARCTUS Matthew. Type *C. saxatilis* Matthew.

Matthew, W. D. 1902 C, 281.
Barbour and Cook 1914 A, 225.
Gregory, W. K. 1910 A, 314.
Haug, E. 1911 A, 1705.
Matthew, W. D. 1912 B, 185.
Merriam, J. C. 1906 A, 59.
Osborn, H. F. 1909 D, 78.
Palmer, T. S. 1904 A, 209, 824.
Romer and Sutton 1927 A, 463.
Trouessart, E. L. 1904 A, 218.
Zittel and Schlosser 1911 A, 392.
1923 A, 472, 673.

Cynarctus acridens Barbour and Cook.

Barbour and Cook 1914 A, 226, pl. i, *c.d.*
Lower Miocene (Harrison); Nebraska.

Cynarctus crucidens Barbour and Cook.

Barbour and Cook 1914 A, 225, pl. i, *a. b.*
1917 A, 172.
Middle Miocene (Pawnee Creek); Colorado.

Cynarctus saxatilis Matthew.

Matthew, W. D. 1902 C, 281, fig. 1.
Barbour and Cook 1914 A, 226, fig. 1.
Matthew, W. D. 1909 C, 114.
Middle Miocene (Pawnee Creek); Colorado.

TOMARCTUS Cope. Type *T. brevirostris* Cope.

Hay, O. P. 1902 A, 775.
Matthew, W. D. 1909 C, 118.
1924 C, 70, 88, 118, 120, 122, fig. 28.
Palmer, T. S. 1904 A, 681, 833.
Weber and Abel 1928 A, 329.
See also *Tephrocyon*.

Tomarctus brevirostris Cope.

Hay, O. P. 1902 A, 775.
Barbour and Cook 1917 B, 180 (Tephrocyon hippophagus. This species ?).
Cook, H. J. 1912 D, 44 (Tephrocyon hippophagus).
1922 B, 5 (Tephrocyon hippophagus).
Cope and Matthew 1915 A, pl. cxixc, fig. 4.

Matthew, W. D. 1901 B, 359.
1909 C, 114.
1918 A, 185, 188 (Tephrocyon hippophagus).
1924 C, 65, 71, 91, 122, figs. 11-16.
Matthew and Cook 1909 A, 373, fig. 4 (Tephrocyon hippophagus).
Merriam, J. C. 1913 D, 360, 361, 364, fig. 6 (Tephrocyon hippophagus).
1917 A, 435 (Tephrocyon hippophagus).
1919 A, 464 (Tephrocyon hippophagus).
Sinclair, W. J. 1915 A, 76 (Tephrocyon hippophagus).
Thorpe, M. R. 1922 E, 435 (Tephrocyon hippophagus).
Trouessart, E. L. 1904 A, 226.
Upper Miocene (Pawnee Creek); Colorado: (Lower Snake Creek); Nebraska.

Tomarctus confertus (Matthew).

Matthew, W. D. 1918 A, 185, 188, 189, fig. 1 (Tephrocyon).
Hay, O. P. 1924 A, 2 (Tephrocyon).
Matthew, W. D. 1924 C, 65, 96, 123, figs. 17, 28.
Upper Miocene (Lower Snake Creek); Nebraska.

Tomarctus hippophagus Matthew and Cook.

Matthew and Cook 1909 A, 373, fig. 4.
Barbour and Cook 1917 B, 180 (This species?).
Cook, H. J. 1912 D, 44.
Matthew, W. D. 1918 A, 185, 188.
1924 C, 88 (Tephrocyon).
Merriam, J. C. 1913 D, 360, 361, 364, fig. 6.
1917 A, 435.
Sinclair, W. J. 1915 A, 76.
Pliocene (Snake Creek); Nebraska.

Tomarctus marshi (Thorpe).

Thorpe, M. R. 1922 E, 436, fig. 6 (Tephrocyon).
Upper Miocene (Valentine); Nebraska.

Tomarctus mortifer (Cook).

Cook, H. J. 1914 B, 49, pls. i-iii (Tephrocyon).
1922 B, 5 (Tephrocyon).
Matthew, W. D. 1918 A, 185, 188 (Tephrocyon).
1924 C, 65.
Merriam, J. C. 1917 A, 436 (Tephrocyon).
Sinclair, W. J. 1915 A, 76 (Tephrocyon).
Thorpe, M. R. 1922 E, 436 (Tephrocyon).
Miocene (Sheep Creek); Nebraska.

Tomarctus optatus Matthew.

Matthew, W. D. 1925 C, 65, 98, figs. 18, 19.
Miocene (Sheep Creek); Nebraska.

Tomarctus scitulus (Hay).

Hay, O. P. 1924 A, 3, pl. i, figs. 2, 3 (Tephrocyon).
Upper Miocene (Fleming); Texas.

Tomarctus sp. indet.

Barbour and Cook 1917 A, 172 (Tephrocyon). Pliocene (Devil's Gulch); Nebraska.
1917 B, 180 (Tephrocyon). Pliocene (Valentine); Nebraska.
Matthew and Cook 1909 A, 376, fig. 5 (Tephrocyon "sp. a"). Pliocene (Snake Creek); Nebraska.
Merriam, J. C. 1913 D, 361 (Tephrocyon). Pliocene (Snake Creek); Nebraska.
1917 A, 436 (Tephrocyon).
Sinclair, W. J. 1915 A, 76 (Tephrocyon). Pliocene (Snake Creek); Nebraska.

AMPHICYON Lartet. Types *A. major, A. minor* Blainville.

Lartet, E. 1836, Bull. Géol. Soc. France, VII, 219, 220.
Abel, O. 1913 B, 717.
Ameghino, F. 1906 A, 403.
1912 B, 177.
Arldt, T. 1907 D, 637.
Boas, J. E. V. 1914 B, 580.
Bose, P. N. 1880 A, 121.
Bronn, H. G. 1838 A, 1275.
1849 A, 721.
Cahall, W. C. 1890 A, 231.
Cope, E. D. 1880 U, 156, 157.
Dall and Harris 1892 A, 296.
Depéret, C. 1905 A, 1519.
1907 B.
1912 A, 709.
Filhol, H. 1879 A, 75-106, pls. x-xvi.
Frick, C. 1926 A, 16, 20.
Gaudry, A. 1872 D, 1282.
1891 C, 53, fig. 20.
Gervais, P. 1852 A, 111, explan. pl. xxviii.
1859 A, 214, pl. xxviii.
Hatcher, J. B. 1902 F, 66.
Haug, E. 1911 A, 1705.
Hoernes, R. 1886 A, 695.
Ihering, H. 1910 A, 158.
Lockwood, S. 1884 A, 407.
Lydekker, R. 1884 A, 246.
Mackie, S. J. 1863 D, 335.
Matthew, W. D. 1902 C, 283, 284.
1903 D, 913.
1907 A, 179, 181, 194, 198.
1909 C, 118.
1909 D, 416.
1918 A, 190.
1924 C, 70, 104, 114, 119, 122, fig. 28.
Matthew and Cook 1909 A, 366.
Merriam, J. C. 1906 A, 59.
Merriam, Stock, Moody 1925 A, 61.
Osborn, H. F. 1905 I, 109.
1909 D, 69, 72, 74, 77, 78, 83.
1910 B, 605.
1912 G, 247.
Owen, R. 1860 E, 340.
Palmer, T. S. 1904 A, 95, 823.
Rütimeyer, L. 1862 C, 87.
Schlosser, M. 1902 B, 297.
1903 I, 219.
1904 A, 496.
1911 A.
Scott, W. B. 1913 A, 524, 525, 530, 675.
Seeley, H. G. 1878 A, 226.
Serres, M. 1852 A, 119 (Amphycion).
Simpson, G. G. 1926 L, 174.
Stromer, E. 1902 A, 240.
1902 B, 554.

Thorpe, M. R. 1922 D, 375.
Trouessart, E. L. 1904 A, 220.
Wallace, A. R. 1876 A, I, 118, 121, 134; II, 559.
Weber, M. 1904 A, 534.
Weber and Abel 1928 A, xix, 328, 340.
Winge, H. 1924 A, 177, 195, 243.
Wortman, J. L. 1901 A, 200.
1906 A, 90.
Zittel and Schlosser 1911 A, 387.
1923 A, 468, 613.

Amphicyon americanus Wortman.

Wortman, J. L. 1901 A, 200, figs. A, B.
Hatcher, J. B. 1902 F, 99.
Matthew, W. D. 1902 C, 287.
1903 D, 913.
1918 A, 190.
1924 C, 105.
Peterson, O. A. 1910 A, 260.
Thorpe, M. R. 1922 E, 437.
Trouessart, E. L. 1904 A, 220.
Zittel and Schlosser 1911 A, 388.
1923 A, 468.
Miocene (Arikaree); Nebraska?

Amphicyon frendens Matthew.

Matthew, W. D. 1924 C, 111, fig. 26.
Cook, H. J. 1926 C, 30.
Frick, C. 1926 A, 14, 15, figs. 1*a*, 1*b*.
Miocene (Sheep Creek); Nebraska.

Amphicyon ingens Matthew.

Matthew, W. D. 1924 C, 65 (A. gigas); 111, fig. 24 (A. ingens).
Cook, H. J. 1926 C, 30.
Stock and Furlong 1926 A, 48.
Miocene (Snake Creek); Nebraska.

Amphicyon idoneus Matthew.

Matthew, W. D. 1924 C, 65, 113, fig. 25.
Frick, C. 1926 A, 43.
Miocene (Sheep Creek); Nebraska.

Amphicyon reinheimeri Cook.

Cook, H. J. 1926 C, 29, with 1 pl.
Miocene (Pawnee Creek); Colorado.

Amphicyon sinapius Matthew.

Matthew, W. D. 1902 C, 288, figs. 2-4.
Cook, H. J. 1912 D, 43 (A. amnicola).
1915 A, 57, pl. i (A. amnicola).
1926 C, 30.
Frick, C. 1926 A, 43.
Gregory and Hellman 1923 B, 523, fig. 11.
Matthew, W. D. 1909 C, 114.
1909 D, 426.
1918 A, 185 (Pliocyon amnicola).
1924 C, 65, 71, 109, figs. 21-23, 27.
Matthew and Cook 1909 A, 368 (A. sinapius, A. amnicola).
Merriam, J. C. 1917 A, 422 (Pliocyon amnicola?); 435 (A. amnicola).
Merriam, Stock, Moody 1925 A, 61 (A. sinapius, A. amnicola).
Sinclair, W. J. 1915 A, 76 (A. amnicola).
Stock, C. 1925 A, 18 (A. amnicola?).
Stock and Furlong 1926 A, 48.
Thorpe, M. R. 1922 E, 438; figs. 7, 8.
Miocene (Pawnee Creek); Colorado: (Snake Creek); Nebraska.

Amphicyon superbus Peterson.

Peterson, O. A. 1906 C, 51, pl. xviii.
Loomis, F. B. 1923 A, 222.
Matthew, W. D. 1909 C, 112.
Peterson, O. A. 1909 B, 620.
Sternberg, A. 1913 A, 46.
Oligocene (Lower Harrison); Nebraska.

Amphicyon sp. indet.

Cook, H. J. 1912 D, 43. Pliocene (Snake Creek); Nebraska.
Gidley, J. W. 1903 C, 627 (Borophagus?). Pliocene (Blanco); Texas.
1906 A, 553 (This genus?). Pleistocene (Cave); California.
Lambe, L. M. 1905 D, 369.
Matthew, W. D. 1901 B, 445.
1909 C, 120. Pliocene (Blanco); Texas.
Matthew and Cook 1909 A, 370.
Merriam, J. C. 1917 A, 434 (This genus?). Pliocene (Blanco); Texas: 435 (This genus?) Miocene (Snake Creek); Nebraska.
Merriam, Stock, Moody 1925 A, 60, fig. 10 (This genus or an ursid?). Pliocene (Rattlesnake); Oregon.
Sinclair, W. J. 1915 A, 76. Miocene (Snake Creek); Nebraska.

ISCHYROCYON Matthew. Type *I. hyænodus* Matthew.

Matthew, W. D. 1904 C, 246.
Haug, E. 1911 A, 1706.
Matthew, W. D. 1907 A, 181.
1909 C, 118.
Merriam, J. C. 1906 A, 59.
O'Harra, C. C. 1910 A, 80, 133.
Osborn, H. F. 1910 B, 301, 529.
Stock and Furlong 1926 A, 48.
Thorpe, M. R. 1922 D, 375.
Zittel and Schlosser 1911 A, 388.
1923 A, 468.

Ischyrocyon hyænodus Matthew.

Matthew, W. D. 1904 C, 246, figs. 1, 2.
Gidley, J. W. 1904 A, 245.
Matthew, W. D. 1909 C, 115.
O'Harra, C. C. 1910 A, 81.
1920 A, 82.
Miocene (Arikaree); South Dakota.

DINOCYON Jourdan. Type *D. thenardi* Jourdan.

Jourdan, A. J. L. 1861, Comptes rend. Paris, LIII, 962, 963.
Baker, F. C. 1920 A, 209, 215, 398.
Bronn, H. G. 1862 A, 120.
Depéret, C. 1892 A, 37.
Frick, C. 1926 A, 5, 54.
Haug, E. 1911 A, 1706.
Lydekker, R. 1885 B, 150.

Matthew, W. D. 1902 A, 129.
1902 C, 284.
1902 F, 317 ("Dinocyon"?).
1905 D, 39, fig. 15.
1907 A, 181.
1909 C, 118.
1915 A, 219.
1918 A, 194.
1924 C, 105, 127.
Merriam, J. C. 1906 A, 59.
Osborn, H. F. 1904 R, 11.
1905 I, 106, 110.
1909 D, 80, 81, 86 (This genus?).
1910 B, 612.
1918 A, 26.
Palmer, T. S. 1904 A, 233, 824.
Pilgrim, G. E. 1912 A, 14.
Schuchert and Levene 1927 A, 336.
Scott, W. B. 1913 A, 524, 530.
Simpson, G. G. 1926 L, 174.
Thorpe, M. R. 1922 D, 375.
Trouessart, E. L. 1904 A, 219.
Winge, H. 1924 A, 177, 195, 243.
Zdansky, O. 1924 B, 4.
Zittel and Schlosser 1911 A, 388 (Syn. of Borophagus).
1923 A, 468, 673, 679 (Syn. of Borophagus).

Dinocyon ossifragus Douglass.

Douglass, E. 1903 A, 154, 192, figs. 31, 32.
Matthew, W. D. 1909 C, 115.
1924 C, 106.
Lower Pliocene (Madison Valley); Montana.

Dinocyon sp. indet.

Hay, O. P. 1914 A, 26 (This genus?). Pleistocene; Nebraska.
Matthew, W. D. 1902 F, 317 (This genus?).
Compare *Dinarctotherium*.

BOROPHAGUS Cope. Type *B. diversidens* Cope.

Hay, O. P. 1902 A, 776.
Freudenberg, W. 1910 A, 22.
Frick, C, 1926 A, 69.
Haug, E. 1911 A, 1706.
Matthew, W. D. 1902 A, 132.
1918 A, 192.
Merriam, J. C. 1903 B, 280, 281.
1917 A.
1919 A, 531.
Osborn, H. F. 1907 G, 141, fig. 99.
1909 D, 80, 83, 86.
1910 B, 302, 366, 529.
Palmer, T. S. 1904 A, 140, 823.
Scott, W. B. 1913 A, 524, 530.
Zittel and Schlosser 1911 A, 388 (Dinocyon a syn.).
1923 A, 468, 680.

Borophagus diversidens Cope.

Hay, O. P. 1902 A, 776.
Dumble, E. T. 1894 A, 559.
Freudenberg, W. 1910 A, 22 (To Hyænognathus).
Frick, C. 1926 A, 93.
Gidley, J. W. 1903 C, 627.
Matthew, W. D. 1902 A, 130.
1902 C, 290 (Dinocyon?).
1909 C, 120.
Merriam, J. C. 1903 B, 281, text-figs. 2, 4, 5.
1917 A, 434.
Montgomery, T. H. 1904 A, 58.
Trouessart, E. L. 1904 A, 219 [Dinocyon (Borophagus)].
Pliocene (Blanco); Texas.

BOROCYON Peterson. Type *B. robustus* Peterson.

Peterson, O. A. 1910 A, 263.
Matthew, W. D. 1918 A, 92.

Borocyon robustus Peterson.

Peterson, O. A. 1910 A, 263, figs. 58-61 (B. robustum).
Cook, H. J. 1912 D, 42 (B. robustum).
O'Harra, C. C. 1920 A, 155 (B. robustum).
Miocene (Harrison); Nebraska.

HEMICYONINÆ Frick.

Frick, C. 1926 A, 12.
Simpson, G. G. 1926 L, 174.

HEMICYON Lartet. Type *H. sansaniensis* Lartet.

Lartet, E. 1851 A, 16.
Filhol, H. 1891 A.
Frick, C. 1926 A, 1-119.
1926 C, 446.
Gervais, P. 1853 C, 232.
Lydekker, R. 1884 A, 202 (Dinocyon, Hemicyon).
1885 B, 150, 156 (Dinocyon).
Matthew, W. D. 1928 B, 971, 974, fig. 13.
Romer and Sutton 1927 A, 458.
Schlosser, M. 1899 B, 83.
Simpson, G. G. 1926 L, 174.
Weber, M. 1904 A, 535.
Woodward, A. S. 1898 B, 394.
Zittel, K. A. 1893 B, 637, fig. 533.
Zittel and Schlosser 1911 A, 389.
1923 A, 469.

The systematic position of this genus is in some doubt.

Hemicyon barstowensis Frick.

Frick, C. 1926 A, 14, 15, 21, 27, 30, tab. 1, figs. 1a, 1b, 3, 6-8, 11, 12.
Miocene (Barstow); California.

Hemicyon californicus Frick.

Frick, C. 1926 A, 21, 29, 31, 33, 34, tab. 1, fig. 12.
Miocene (Barstow); California.

Hemicyon? ursinus (Cope).

Hay, O. P. 1902 A, 774 (Ælurodon).
Baird, S. F. 1876 A, ccx (Canis).
Frick, C. 1926 A, 21, 31, 35, 43, tab. 1, figs. 4, 5, 9, 10, 13-15 [Hemicyon (Canis)].
Matthew, W. D. 1902 A, 130 [Canis (Ælurodon)].
1902 C, 290 (Amphicyon?).
1904 C, 252 (Ælurodon?).
1909 C, 115 (Dinocyon?).
1924 C, 113 (Pliocyon).
Merriam, J. C. 1919 A, 536 (Canis?).
Merrill, G. P. 1907 A, 28 (Canis).
Simpson, G. G. 1926 L, 174.
Stock and Furlong 1926 A, 49 (Canis, Pliocyon).
Trouessart, E. L. 1904 A, 220 (Amphicyon).
Miocene (Santa Fe); New Mexico.

PROCYONIDÆ Bonaparte.

Bonaparte, C. L. 1850, Consp. Syst. Mastozool.
Hay, O. P. 1902 A, 764 (Procyonidæ, Procyoninæ).
Abel, O. 1912 F, 501.
1913 B, 716.
1914 A, 78.
1919 A, 746.
Ameghino, F. 1905 B, 194.
1912 A, 59.
1912 B, 177 ("procyonidés").
Arldt, T. 1907 B, 449 ("procyoniden").
1907 D, 676.
1912 A, 702 (Procyonidæ, Procyoninæ).
Bardenfleth, K. S. 1913 A, 104.
Beddard, F. E. 1902 A, 426.
Behlen, H. 1907 A ("procyoniden").
Boas, J. E. V. 1914 B, 580 ("procyoniden").
Brown, A. E. 1904 B, 94.
Carlson, A. 1921 A, 71.
Case, E. C. 1899 B, 180.
Chandler, A. C. 1914 B, 134.
Chardin, T. 1915 A, 141, 155.
1922 A, 104 ("procyonidés").
Doran, A. H. G. 1878 A, 393, 397, 407.
Ehrenberg, K. 1926 A, 56 ("procyoniden").
Elliot, D. G. 1901 A, 315.
Flower, W. H. 1869 B, 15-37.
Gidley, J. W. 1923 C, 241.
Gill, T. 1885 B, 21.
Grant, M. 1904 B, 193, 205.
Gregory, W. K. 1921 A, 69.
Hilzheimer, M. 1913 A, 566.
Hollister, N. 1915 A, 143.
Huxley, T. H. 1880 C, 4.
1880 D, 428, 429.
Ihering, H. 1910 A, 164.
Joleaud, L. 1919 A, 710, 712, fig. 7.
Kampfen, P. N. 1905 A, 530.
Lobley, J. L. 1908 A, 194, 200, 204.
Lockwood, S. 1884 A, 355 (Bassarididæ); 357 (Procyonidæ).
Lull, R. S. 1917 B, 338, 564.
Lydekker, R. 1910 E, 352 ("raccoons").
Matthew, W. D. 1901 A, 7.
1905 D, 37.
1907 A, 179.
1909 C, 112, 116, 118.
1909 D, 330, 401.
1910 G, 158.
1912 B, 184.
1913 B, 291.
1915 A, 196, 197, 220, fig. 10.
1915 K, 445.
1924 C, 138, 144.
1928 B, 974, fig. 13.
Miller, G. S. 1912 B, 88.
1920 B, 190.
Osborn, H. F. 1905 I, 106.
1909 D, 134.
1910 B, 288, 301, 529.
Palmer, T. S. 1904 A, 765, 836.
Pocock, R. I. 1914 B, 913.
1921 B, 389, 421 (Procyonidæ); 389, 422 (Procyoninæ).
Pohl, L. 1909 A, 382 ("procyoniden").
1911 A, 122.
Romer and Sutton 1927 A, 460, 463.
Scharff, R. F. 1911 A, 151, 181, 249.
Schlosser, M. 1902 A, 134, 138.
Scott, W. B. 1913 A, 238, 517, 546, 552.
1916 A, 117 ("raccoons").
Seton, E. T. 1909 A, 1010, map 54.
Shufeldt, R. W. 1915 E, 691 (Procyonidæ, Procyonoidea).
Sokolowsky, A. 1919 A, 238.
Stromer, E. 1902 A.
Trouessart, E. L. 1904 A, 183 (Procyonidæ); 184 (Procyoninæ).
Turner, H. N. 1848 A, 86 (Procyonina).
Wallace, A. R. 1876 A, I, 144; II, 200.
1894 A, 435.
Weber, M. 1904 A, 536.
Weber and Abel 1928 A, 308, 318, 331.
Winge, H. 1896 A, 126, 127.
1924 A, 178, 192, 198, 199, 243 (Procynidæ).
Wortman, J. L. 1920 A, 17 ("raccoons").
Zittel and Schlosser 1911 A, 391.
1923 A, 472, 482.

ALETOCYON Romer and Sutton. Type *A. multicuspis* Romer and Sutton.

Romer and Sutton 1927 A, 460.

Aletocyon multicuspis Romer and Sutton.

Romer and Sutton 1927 A, 460, figs. 1, 2.
Lower Miocene (Lower Harrison); Wyoming.

PHLAOCYON Matthew. Type *P. leucosteus* Matthew.

Hay, O. P. 1902 A, 765.
Abel, O. 1913 B, 716.
Ameghino, F. 1912 A, 59.
Chardin, T. 1915 A, 141, 155.
Frick, C. 1926 A, 8, 47.
Gregory, W. K. 1920 A, 150, fig. 84.
Ihering, H. 1910 A, 159, 164.
Joleaud, L. 1919 A, 710, 712, fig. 7.
Kraglievich, L. 1925 A, 190.
Matthew, W. D. 1901 A, 17.
1901 B, 365, 370, 373, 398.
1905 D, 37, figs. 13, 14.
1907 A, 179.
1909 C, 118.
1912 B, 182.
1915 A, 197, 221.
1924 C, 138, 144.
Osborn, H. F. 1905 H, 221.
1905 I, 106.
1907 G, 140, fig. 98.
1912 G, 249.
Palmer, T. S. 1904 A, 531, 837.
Romer and Sutton 1927 A, 458, 460.
Scharff, R. F. 1911 A, 151.
Schlosser, M. 1916 A, 29.
Scott, W. B. 1913 A, 238, 547.
Stromer, E. 1902 A, 256.
Trouessart, E. L. 1904 A, 185.
Weber, M. 1904 A, 536, 542.
Weber and Abel 1928 A, 331.
Winge, H. 1924 A, 178, 198, 243.
Zittel and Schlosser 1911 A, 392.
1923 A, 472, 672.

Phlaocyon leucosteus Matthew.

Hay, O. P. 1902 A, 765.
Abel, O. 1914 A, 79, fig. 44.
Joleaud, L. 1919 D, 412 (Pholaocyon).
Matthew, W. D. 1901 B, 357, 381, text-fig. 7.
1909 C, 112.
1924 C, 138.
Peterson, O. A. 1924 B, 301.
Romer and Sutton 1927 A, 460, 462.
Schlosser, M. 1902 A, 138, fig.
Stromer, E. 1912 A, 13, fig. 16.
Trouessart, E. L. 1904 A, 185.
Zittel and Schlosser 1911 A, 392, fig. 557.
1923 A, 472, fig. 596.
Lower Miocene (Harrison); Colorado.

Phlaocyon willistoni Peterson.

Peterson, O. A. 1924 B, 300, figs. 1, 2.
Lower Miocene (Brown's Park); Colorado.

PROCYON Storr. Type *Ursus lotor* Linnæus.

Hay, O. P. 1902 A, 764.
Allen, J. A. 1892 A.
Ameghino, F. 1889 A, 1023.
1902 D, 423.
1905 C, 449, fig. 94.
1912 B, 179.
Anderson, R. J. 1901 A, 682.
Arldt, T. 1907 D, 117.
Bärthold, —— 1904 A, 367.
Baird, S. F. 1876 A, ccviii ("raccoon").
Bardenfleth, K. S. 1913 A, 104.
Beddard, F. E. 1902 A, 427.
Behlen, H. 1907 A.
Boas, J. E. V. 1909 A, 530.
Brauer, A. 1914 A, 282.
Chardin, T. 1915 A, 155.
Cope, E. D. 1880 U, 158.
Cuvier, G. 1805 A.
1825 A, IV, 253, pl. xviii.
Eggeling, H. 1904 A, 97.
Elliot, D. G. 1901 A, 317.
Fischer, J. B. 1829 A, 146.
Frech, F. 1907 A, 315 ("waschbär").
Frick, C. 1926 A, 8, 9, 16, 40, 47.
Gidley, J. W. 1923 C, 241.
Giebel, C. G. 1855 A, 36, pl. xiv.
1878 C, 854.
Grant, M. 1904 B, 205.
Gregory. W. K. 1920 A, 150, fig. 85.
Heilprin, A. 1887 A, 390.
Hollister, N. 1915 A, 145, 146, pl. xxxix, fig.
Huxley, T. H. 1880 D, 428, fig. 14.
Ihering, H. 1910 A, 165.
Joleaud, L. 1919 A, 710, fig. 7.
Kampfen, P. N. 1905 A, 536.
Köstlin, O. 1844 A.
Kraglievich, L. 1925 A, 183.
Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 199.
Lockington, W. N. 1884 A, 409.
Lockwood, S. 1884 A, 357.
Matthew, W. D. 1907 A, 179.
1915 A, 197, 220.
1915 K, 402.
1924 C, 141.
1928 B, 974, fig. 13.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 60.
Miller, G. S. 1912 B, 89.
1924 C, 108.
Osborn, H. F. 1909 D, 90.
1910 B, 472, 488, 529.
Owen, R. 1845 B, 500.
Palmer, T. S. 1904 A, 568, 837.
Pander and Alton 1822 A, 9 (Procion).
Paulli, S. 1900 B, 496.
Pocock, R. I. 1921 B, 389, 399, 407, 415.
Pohl, L. 1911 A, 124, pl. viii, fig. 51.
Retzius, A. 1849 A, 620.
Röse, C. 1892 F, 401.
Scharff, R. F. 1911 A, 152, 181.
Schlosser, M. 1899 I, 349.
Schwalbe, G. 1904 A, 207.
Scott, W. B. 1913 A, 546, 688.
1917 A, 32, 134, 140 ("raccoons").
Seton, E. T. 1909 A, 1010.
Shufeldt, R. W. 1915 E, 691.
Sokolowsky, A. 1919 A, 243.
Stromer, E. 1902 A.
1902 B, 557.
Taylor, W. P. 1916 A, 467.
Terra, P. 1911 A, 279.
Tornier, G. 1889 A, 176.
1891 A, 122, 144.

Trouessart, E. L. 1904 A, 186.
Turner, H. N. 1848 A, 80.
Wallace, A. R. 1876 A, I, 130; II, 200.
Weber, M. 1904 A, 536.
Wiegmann, F. R. 1838 B, 262.
Winge, H. 1896 A, 127.
1924 A, 178, 243, 248.
Wilder, B. 1872 B, 319.
Zittel and Schlosser 1911 A, 392.
1923 A, 472, 679, 681.

Procyon lotor (Linnæus).

Hay, O. P. 1902 A, 764.
Anderson, R. J. 1902 A, 1120, fig. 10.
Baker, F. C. 1920 A, 374.
Bangs, O. 1898 A, 219 (P. l. elucus).
Brown, B. 1908 A, 183.
Cope, E. D. 1895 F, 447.
1895 G, 596.
Doran, A. H. G. 1878 A, 397, pl. lix.
Elliot, D. G. 1901 A, 317, fig. 62.
Fischer, J. B. 1829 A, 147.
Foote, J. S. 1916 A, 142, pl. xx.
Frech and Geinitz 1903 A, 36.
Frick, C. 1926 A, 14, 15, figs. 1*a*, 1*b*.
Furlong, E. L. 1904 A, 55 (This species?).
1906 A, 245.
Gidley, J. W. 1927 E, 274.
Giebel, C. G. 1883 A, pls. xvii, lxxii, lxxviii.
Hay, O. P. 1914 A, 32.
1917 E, 46.
1920 B, 95.
1923 A, 494.
1924 D, 252.
1927 D, 214.
Holmes, F. S. 1859 A, 184 ("raccoon").
1860 A, iv, vii ("raccoon").
Leidy, J. 1859 J, 184 ("raccoon").
1889 H, 18.
Lockwood, S. 1884 A, 357, fig. 174.
Mercer, H. C. 1894 A, 98 ("raccoon").
Miller, G. S. 1912 B, 89.
1924 C, 108.
Miller, L. H. 1912 A, 73 (This species?).
Osborn, H. F. 1910 B, 488.
Owen, R. 1845 B, 500, pl. cxxix, fig. 7.
1868 A, 903.
Pocock, R. I. 1921 B, 392, 412, figs. 1, 3, 4.
Pohl, L. 1911 A, 124, pl. viii, figs. 48-50.
Rhoads, S. N. 1903 A, 228.
Scharff, R. F. 1911 A, 151, 249.
Schmidt, E. 1872 A, 251.
Scott, W. B. 1913 A, 166, 547, figs. 80, 273.
Sellards, E. H. 1916 C, 152, 158 (This species?).
1916 E, 16, 17.
1916 F, 9 (P. sp.).
Seton, E. T. 1909 A, 1010, pls. lxxxvi-lxxxvii; text-figs. 234-235, map 54.
Stock, C. 1925 A, 113 (This species?).
Recent; Central and North America: Pleistocene; New Jersey, Pennsylvania, Arkansas, California, Florida, West Virginia.

Procyon priscus Le Conte.

Hay, O. P. 1902 A, 765.
Baker, F. C. 1920 A, 354, 360, 398.
Gervais, P. 1859 A, 365.
Hay, O. P. 1914 A, 38.
1923 A, 494.
Mackie, S. J. 1863 D, 334.
Whitney, J. D. 1862 A, 136.
Pleistocene; Illinois.

Procyon psora Gray.

Gray, J. E. 1842, Ann. Mag. Nat. Hist., x, 261.
Hay, O. P. 1927 D, 223.
Miller, G. S. 1912 B, 90.
1924 C, 109.
Stock, C. 1918 A, 468, 470.
1925 A, 113.
Recent; California and Washington: Pleistocene; California.

Procyon simus Gidley.

Gidley, J. W. 1906 A, 553, pl. xii.
Hay, O. P. 1927 D, 213.
Scharff, R. F. 1911 A, 152 (P. sinus).
Pleistocene; California.

Procyon sp. indet.

Cooke, C. W. 1926 A, 445 ("raccoon"). Pleistocene; Florida.
Matthew, W. D. 1925 A, 97. Pleistocene (Early); Florida.
Sellards, E. H. 1916 D, 617. Pleistocene (Early); Florida.

BASSARISCIDÆ Gray.

Gray, J. E. 1869 A, 246.
Gill, T. 1872 B, 7, 59, 67.
Hall, E. R. 1927 A, 435, 444 (Bassariscinæ).
Hollister, N. 1915 A, 144.
Miller, G. S. 1924 C, 112.
Pocock, R. I. 1921 B, 421 (Bassariscinæ).
Shufeldt, R. W. 1915 E, 692 (Bassarisinæ).

BASSARISCUS Coues. Type *Bassaris astuta* Licht.

Coues, E. 1887, Science, IX, 516 (To replace Bassaris Licht., preoccupied).
Hay, O. P. 1902 A, 764.
Allen, J. A. 1892 A.
Bardenfleth, K. S. 1913 A, 103 (Bassaris).
Beddard, F. E. 1902 A, 428.
Doran, A. H. G. 1878 A, 398, pl. lix.
Elliot, D. G. 1901 A, 316.
Giebel, C. G. 1855 A, 31 (Bassaris).
Grant, M. 1904 B, 194, 205.
Gregory, W. K. 1921 A, 196.
Hall, E. R. 1927 A, 439, 444.
Hollister, N. 1915 A, 143.
Huxley, T. H. 1880 D, 428 (Bassaris).
Ihering, H. 1910 A, 160, 164.
Joleaud, L. 1919 A, 710, fig. 7.
Leche, W. 1887 A (Bassaris).
Leunis and Ludwig 1883 A, 192 (Bassaris).
Lockington, W. N. 1884 A, 409 (Bassaris).
Lockwood, S. 1884 A, 355 (Bassaris).
Lönnberg, E. 1911 B, 232, fig. 2.
Matthew and Cook 1909 A, 366.
1909 B, 197.
1924 C, 138, 142.

Merriam, C. H. 1892 A, 61.
Merriam, J. C. 1911 B, 205-207, 214, 246, 248 (Probassariscus, type *P. antiquus* Merriam).
Miller, G. S. 1912 B, 88.
  1924 C, 112.
Osborn, H. F. 1909 D, 89.
  1910 B, 356, 477, 529.
Palmer, T. S. 1904 A, 133, 836.
Pocock, R. I. 1921 B, 390, 399, 406, 415, 421.
Scharff, R. F. 1911 A, 201, 249.
Scott, W. B. 1913 A, 517, 546, 547.
Shufeldt, R. 1915 E, 691 (Bassariscus).
Stromer, E. 1902 A.
Turner, H. N. 1848 A, 80 (Bassaris).
Wallace, A. R. 1876 A, II, 200 (Bassaris).
Weber, M. 1904 A, 536 (Bassaris).
Weber and Abel 1928 A, 332.
Winge, H. 1924 A, 198, 243, 248.
Zittel and Schlosser 1911 A, 392.

Bassariscus antiquus Matthew and Cook.

Matthew and Cook 1909 A, 377, fig. 6.
Cook, H. J. 1912 D, 44.
Hall, E. R. 1927 A, 437, pl. lxiv, figs. *a*, *b*.
Matthew, W. D. 1918 A, 185 (Probassariscus).
  1924 C, 65 (Probassariscus).
Merriam, J. C. 1911 B, 248 (Probassariscus).
  1917 A, 436.
Sinclair, W. J. 1915 A, 76.
  Upper Miocene (Lower Snake Creek); Nebraska.

Bassariscus antiquus matthewi (Merriam).

Merriam, J. C. 1911 B, 214, 246, 248, fig. 21 (Probassariscus).
  Miocene (Virgin Valley); Nevada.

Bassariscus astutus (Licht.).

Hay, O. P. 1902 A, 764.
Bardenfleth, K. S. 1913 A, 103, fig. 7 (Bassaris).
Beddard, F. E. 1902 A, 429, fig. 215.
Elliot, D. G. 1901 A, 316.
Giebel, C. G. 1883 A, pl. xiii (Bassaris).
Hay, O. P. 1923 A, 314.
Miller, G. S. 1912 B, 88.
  1924 C, 112.
Owen, R. 1866 B, 510 (Bassaris).
Stromer, E. 1902 A, 139, pl. iii, fig. 3.
  Recent; Mexico to Oregon: Pleistocene; Pennsylvania.

Bassariscus astutus raptor (Baird).

Baird, S. F. 1859, Mamm. Mex. Bound., 19 (Bassaris).
Doran, A. H. G. 1878 A, 398, pl. lix, fig. 15 (Bassaris).
Elliot, D. G. 1901 A, 316, pl. xxxv.
Gregory, W. K. 1920 A, 150, fig. 83.
Hall, E. R 1927 A, 444
Hay, O. P. 1927 D, 215.
Lockwood, S. 1884 A, 355, fig. 173 (Bassaris).
Merriam, C. H. 1897 A, 186 (B. raptor).
Merriam and Stock 1925 A, 10.
Miller, G. S. 1924 C, 113 (B. a. oregonus).
Miller, L. H. 1912 A, 70 (B. raptor).
  1912 B, 88 (B. astutus oregonus).
Osborn, H F. 1910 B, 477 (B. raptor).
Pocock, R. I. 1921 B, 393, figs. 1, 3, 6, 13.
Sinclair, W. J. 1903 A, 711 (B. raptor).
  1904 A, 17 (B. raptor).
Stock, C. 1925 A, 113.
Turner, H. N. 1848 A, 80 (Bassaris).
  Pleistocene (Potter Creek cave); California.

Bassariscus parvus Hall.

Hall, E. R. 1927 A, 440, 443.
Merriam, J. C. 1916 A, 175, fig. 10 (B. nevadensis, not of G. S. Miller, 1913).
  Upper Miocene (Cedar Mountain); Nevada.

BASSARISCOPS Peterson. Type *B. willistoni* Peterson.

Peterson, O. A. 1928 A, 96.

Bassariscops willistoni Peterson.

Peterson, O. A. 1928 A, 96, text-figs. 1-7.
  Miocene or Pliocene (Brown's Park); Colorado.

MIXOPHAGUS Cope. Type *M. spelæus* Cope.

Hay, O. P. 1902 A, 765 (Myxophagus, *errore*).
Wallace, A. R. 1876 A, 130 (Myxophagus).

Mixophagus spelæus Cope.

Hay, O. P. 1902 A, 765.
  1923 A, 353 (Myxophagus).
  Pleistocene (Caves); Virginia.

URSIDÆ Gray.

Gray, J. E. 1825 B, 339.
Hay, O. P. 1902 A, 762.
Abel, O. 1912 D, 600 ("bären").
  1913 B, 716.
  1919 A, 743.
Ameghino, F. 1889 A, 1027.
  1902 D, 423 ("ursidés").
  1905 C, 446.
  1906 A, 397 ("ursidés").
Anderson, R. J. 1901 A, 682.
Anderson, R. J. 1909 A, 744.
Anthony, R. 1912 A.
Arldt, T. 1907 B, 449 ("ursiden").
  1907 D, 687.
  1912 A, 748 (Ursinæ).
Bayer, F. 1897 A, 147.
Beddard, F. E. 1902 A, 442.
Behlen, H. 1907 A, ("ursiden").
Birula, A. A. 1913 A, 277.
Boas, J. E. V. 1914 B, 580 ("ursiden").

Bolk, L. 1914 A, 88 ("ursiden").
Bonaparte, C. L. 1832 A, 286 (Ursina).
Boule, M. 1905 A, 1663 ("ours").
Boule and Thevenin 1920 A, 231.
Bradley, O. C. 1899 B, 180.
Brandt and Woldrich 1887 A, 46 (Ursina).
Brown, A. E. 1904 B, 95 ("bears").
Carlson, A. 1921 A, 71.
Carus, V. 1875 A, 130 (Ursida).
Case, E. C. 1899 B, 180.
Chandler, A. C. 1914 B, 134.
Chardin, T. 1922 A, 104 ("ursidés").
Cleland, J. 1863 B, 297 ("bears").
Condon, T. 1906 A, 13 ("bears").
Cope, E. D. 1885 EE, 606 ("bears").
1891 N, 76 ("bears").
Cuvier, F. 1807 A, 128 ("ours").
1825 A, 109 ("ours").
Depéret, C. 1905 A, 1518 ("ursidés").
1905 B, 22 ("ursidés").
1906 B, 1122 ("ursidés").
1907 B ("ursidés").
Doran, A. H. G. 1878 A, 398, 407, pl. lix.
Ehrenberg, K. 1926 A, 54 ("bären").
Eimer, G. H. T. 1901 A, 256 ("bären").
Elliot, D. G. 1901 A, 309.
Frassetto, F. 1903 A, 177.
Frech, F. 1906 A, 497 ("bären").
Freund, L. 1911 A, 389.
Frick, C. 1926 A, 5 (Ursidæ, Ursinæ, Tremarctinæ).
Gaillard, C. 1898 A, 1237 ("ursidés").
Gervais, P. 1859 A, 203 ("ursidés").
Ghigi, A. 1900 B, 99 ("orsi").
Gidley, J. W. 1915 B, 333 ("bears").
1923 C, 241 ("bears").
Giebel, C. G. 1855 A, 36 (Ursinæ).
1883 A, ("bären").
Grant, M. 1904 B, 191, 205.
Gray, J. E. 1821 A, 301 (Ursinidæ).
Gregory, W. K. 1920 A, 151.
Hay, O. P. 1912 D, 769.
1914 A, 474.
1923 A, 312.
1927 E, 77 ("bears").
Hilzheimer, M. 1913 A, 566.
Hoernes, R. 1886 A, 692.
Huxley, T. H. 1856 A, 53.
1880 C, 4.
Jaeger, G. F. 1842 A, 436 ("bären").
Kampfen, P. N. 1905 A, 526.
Kellogg, R. 1922 A, 96.
Koken, E. 1901 B, 220 ("ursiden").
Laloy, L. 1907 A, 587 ("ursidés").
Leunis and Ludwig 1883 A, 198.
Lobley, J. L. 1908 A, 200, 204.
Lockwood, S. 1884 A, 369.
Lönnberg, E. 1923 A, 85 ("bears").
Lull, R. S. 1917 B, 563.
Lydekker, R. 1903 D, 124.
Mackie, S. J. 1863 D, 332.
Martins, C. 1857 A, 68 ("ours").
Matthew, W. D. 1901 A, 8, 17.
1902 C, 284.
1905 D, 37.
Matthew, W. D. 1907 A, 181.
1909 D, 330, 401, 414, 415.
1910 G, 158.
1912 B, 185.
1913 B, 291.
1915 A, 197, 221, fig. 11.
1915 K, 445, fig. 17.
1924 C, 109, 115, 121.
1928 B, 974, fig. 13.
Meckel, J. F. 1825 A ("bären").
Merriam, J. C. 1921 B, 183 ("bears").
Merriam and Stock 1925 A, 4.
Merriam, Stock and Moody 1916 A, 87.
Miller, G. S. 1912 B, 73.
1924 C, 90.
Neuville, H. 1915 A, 6 ("ursidés").
Osborn, H. F. 1905 I, 106.
1909 D, 137.
1910 B, 255, 431, 529.
Owen, R. 1868 A, 913.
Palmer, T. S. 1904 A, 775, 837.
Pocock, R. I. 1914 B, 929.
1921 B, 389, 415, 420.
Pohl, L. 1909 A, 382 ("ursiden").
1911 A, 118.
Pohle, H. 1923 A, 266 ("bären").
Reynolds, S. H. 1897 A, 452, 477, 502, 526.
1906 A, 1, pls. i-viii.
Scharff, R. F. 1911 A, 350.
Schlosser, M. 1900 F, 142.
1902 B, 300.
1902 J, 150, 256 ("ursiden").
Schwarz, E. 1924 A, 420 ("bears").
Scott, W. B. 1896 D, 54 ("bears").
1913 A, 517, 518, 548.
1917 A, 173 ("bears").
Seeley, H. G. 1878 A, 226 ("bears").
Serres, M. 1860 A, 307 ("ours").
Seton, E. T. 1909 A, 1030.
Steinmann, G. 1907 A, 472.
Stromer, E. 1902 A.
1902 B, 554 ("ursiden").
Terra, P. 1911 A, 280.
Tornier, G. 1888 A, 255 (Ursina).
Trouessart, E. L. 1904 A, 177 (Ursidæ, Ursinæ).
Vallois, H. V. 1921 B, 975 ("ursidés").
Vicq-d'Azyr, F. 1819 A, 75 (Ursini).
Virchow, H. 1913 A, 41 ("bären").
Wagner, R. 1843 A ("bären").
Wallace, A. R. 1876 A, i, 135, 144; ii, 201.
1894 A, 435.
Weber and Abel 1928 A, 308, 318, 329, 340.
Weidenreich, F. 1922 B, 133 ("ursiden").
Wiegmann, F. R. 1838 B, 258 ("bären").
Wilkie, H. C. 1926 A, 819.
Winge, H. 1896 A, 126, 127.
1924 A, 177, 192, 197, 243 (Ursini).
Woodward, A. S. 1915 A, 425.
1923 C, 22.
Wortman, J. L. 1901 B, xi, 337, 338.
1906 A, 90 ("bears").
Wright, J. F. 1911 B, 436 ("bears").
Zittel and Schlosser 1911 A, 390.
1923 A, 470, 482, fig. 595.

URSAVUS Schlosser. Type *U. brevirhinus* Hofmann.

Schlosser, M. 1899 B, 99, 103, 108.
Frick, C. 1926 A, 94.
Königswald, R. 1925 A, 16.
Matthew, W. D. 1902 C, 283, 285.
1924 C, 109, 121.
1928 B, 971.
Merriam, Stock, Moody 1925 A, 61.
Romer and Sutton 1927 A, 458, 463.
Schlosser, M. 1899 B.
1900 A, 261.
Simpson, G. G. 1926 L, 174.
Weber and Abel 1928 A, xix, 331, 340.
Zittel and Schlosser 1911 A, 391.
1923 A, 471.

Ursavus pawniensis Frick.

Frick, C. 1926 A, 106, 110, tab. 3, figs. 49, 56 (This genus?).
Matthew, W. D. 1902 C, 285 (This genus?).
Miocene (Pawnee Creek); Colorado.

PLIONARCTOS Frick. Type *P. edensis* Frick.

Frick, C. 1926 A, 111, 114.

Plionarctos edensis Frick.

Frick, C. 1926 A, 114, figs. 56, 57, 61, 62.
1926 C, 441.
Pliocene (Eden); California.

URSUS Linnæus. Type *U. arctos* Linnæus.

Hay, O. P. 1902 A, 763.
Abel, O. 1912 F, 706.
Allen, J. A. 1892 A.
1903 A.
Altmann, F. 1925 A, 108.
Ameghino, F. 1889 A, 1027.
1905 C, 446, fig. 92.
1912 B, 178 ("ours").
Anderson, R. J. 1901 A, 681.
1902 A, 1120, fig. 12.
1902 B, 318, figs.
1903 A, 651.
1905 A, 328, figs. 20, 23.
Anthony, R. 1912 A ("ours").
Arldt, T. 1907 D, 687.
Bardeleben, K. 1889 A, 107.
Bardenfleth, K. S. 1913 A, 106.
Beddard, F. E. 1902 A, 442.
Birula, A. A. 1913 A, 277.
Boas, J. E. V. 1909 A, 529, fig. 6.
1914 B, 580.
Bonsdorff, E. J. 1871 A, 318.
Bradley, O. C. 1905 B, 471.
Brandt and Woldrich 1887 A, 46.
Brauer, A. 1914 A, 282.
Bronn, H. G. 1848 B, 9344.
1849 A, 723.
Broom, R. 1905 A, 98.
Brown, A. E. 1904 B, 94.
Cleland, J. 1863 B, 298.
Cope, E. D. 1895 G, 596.
Cuvier, F. 1825 A, 109, pl. xxxvii ("ours").
Cuvier, G. 1805 A.
1825 A, IV, 255, 311, pl. xviii; pls. xx-xxvii ("ours").
Depéret, C. 1909 A, 141.
DeStefani, C. 1921 A, 257.
Diener, C. 1912 A, 206.
Doran, A. H. G. 1878 A, 399.
Edinger, T. 1928 A, 385, figs. 4, 5.
Eggeling, H. 1904 A, 97.
Ehrenberg, K. 1925 A, 48.
1926 A, 54.
1927 A, 240.
Elliot, D. G. 1901 A, 309.
Falconer, H. 1863 A, 63.
Fischer, J. B. 1829 A, 141.
Foote, J. S. 1916 A, 106.
Frassetto, F. 1903 A, 177, 182, 221, 246.
Frech, F. 1906 A, 483.
Frech and Geinitz 1903 A, 36.
Freund, L. 1911 A, 389.
Frick, C. 1921 A, 341.
1926 A, 8, 16.
Gaillard, C. 1898 A, 1238.
Gaudry, A. 1891 C, 55, fig. 22.
Geikie, J. 1914 A, 319 ("bears").
Geinitz, E. 1903 A.
1904 A.
Gervais, P. 1852 A, 104.
1859 A, 203.
Gidley, J. W. 1912 C, 20.
1913 B, 96.
Giebel, C. G. 1855 A, 37, pls. xvi, xvii.
1878 C, 854 ("bären").
1883 A, pl. xviii, lviii, lxxii, lxxix, lxxxvi.
Grant, M. 1904 B, 191, 205.
Hasse and Schwarck 1870 A, 103.
Hatschek, B. 1889 A, 87, fig. 3.
Hay, O. P. 1909 G, 893.
1912 B, 14.
1912 D, 770.
1914 A, 475.
Heilprin, A. 1887 A, 389.
Hensel, R. 1879 A.
Hermann, R. 1907 A, 196, figs. 2, 5.
Hoyer and Babik 1924 A, 450, pl. xxxiii, figs. 1, 2, 5 ("bären").
Hrdlička, A. 1920 A, 463.
Hue, E. 1907 A, pls. xxiv, xxv, lxxiv, lxxx, xciv, cviii, cxxii, cxxxiii, cxlvi, clx, clxxvi.
Hull, E. 1914 A, 613, 616.
Huxley, T. H. 1856 B, 191 ("bear").
Jaekel, O. 1926 E, 60.
Kampfen, P. N. 1905 A, 527, fig. 51.
Köstlin, O. 1844 A.
Leche, W. 1887 A.
Le Damany, P. 1906 B, 164 ("ours").
Leunis and Ludwig 1883 A, 200.
Lönnberg, E. 1923 A, 85.
Lydekker, R. 1910 E, 352 ("bears").
Mackie, S. G. 1863 D, 332.
Major, C. J. F. 1899 A, 508.
Martins, C. 1872 A, 308 ("ours").

Matthew, W. D. 1909 D, 324, text-fig. 3.
1915 K, 402.
Mead, C. S. 1909 A, 195.
Meckel, J. F. 1825 A.
Merriam, J. C. 1892 A, 62.
1912 A, 40.
1921 B, 184 ("true bears").
Merriam and Stock 1925 A, 4, 12.
Merriam, Stock, Moody 1916 A.
Miller, G. S. 1912 B, 73.
1924 C, 92.
Mysberg, W. A. 1917 A, 655.
Nehring, A. 1880 A.
Neuville, H. 1915 A, 7.
Newton, E. T. 1913 A, 251.
Osborn, H. F. 1909 D, 87-90.
1910 B, 438, 455, 460, 467.
1916 B, 545.
Owen, R. 1845 B, 501, pl. cxxx.
1845 E, 122.
1866 B, 289, fig. 174.
1868 A, 913, fig. 263.
Palmer, T. S. 1904 A, 703, 838.
Pander and Alton 1822 A, 7, pls. iii, viii ("bären").
Paulli, S. 1900 B, 494, figs. 8, 9.
Pilgrim, G. E. 1914 A, 233.
Pocock, R. I. 1921 B, 406 (Ursus).
Pohl, L. 1911 A, 119, pl. viii, fig. 56.
Pohle, H. 1921 A, 118 ("bären").
1923 A, 266, figs. 1, 2 ("bären").
Retzius, A. 1849 A, 619.
Reynolds, H. 1897 A, 436, 439, 534, figs. 84, 85 (Ursus, "bears").
1906 A, 1, pls. i-viii.
Rudolf, G. de M. 1922 A, 138, fig. 3.
Rusconi, C. 1927 A, 282.
Scharff, R. F. 1895 A, 450.
1911 A, 80, 352.
Schlosser, M. 1900 A, 261.
1900 F, 144.
1903 I, 21, 209.
1924 A, 8.
Schwalbe, G. 1904 A, 207.
Sclater, P. L. 1875 A, 219.
Scott, W. B. 1913 A, 549.
Serres, M. 1852 B, 183 ("ours").
1860 A, 303.
Seton, E. T. 1909 A, 1030.
Strecker, C. 1887 A, 318.
Stromer, E. 1902 A.
1902 B, 554.
Taschenberg, O. 1899 A, 4699.
Terra, P. 1911 A, 283, fig. 104.
Tims, H. W. M. 1903 A, 140.
Toldt, C. 1905 A, 319, figs.
Tornier, G. 1889 A, 177.
1891 A, 122, 157.
Trouessart, E. L. 1904 A, 178.
Vicq-d'Azyr, F. 1819 A, 75.
Virchow, H. 1907 A, 46.
1909 A, 421.
1913 A, 41.
1917 B, 323 ("bär").
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, I, 112, 121.
Weber, M. 1904 A, 535, 542, fig. 399.
Weber and Abel 1928 A, 329, figs. 203, 204.
Wiegman, F. R. 1838 B, 262.
Wilder, B. 1872 B, 319.
Winge, H. 1924 A, 177, 197, 243, 248.
Woodward, A. S. 1898 D, 334.
1922 A, 750.
Wortman, J. L. 1902 A, XIII, 120.
Zittel and Schlosser 1911 A, 391.
1923 A, 471.

Ursus amplidens Leidy.

Hay, O. P. 1902 A, 763.
Foster, J. W. 1869 A, 253.
1873 A, 91.
Freudenberg, W. 1910 A, 13.
Hay, O. P. 1923 A, 498.
1928 C, 428.
Shimek, B. 1902 A, 285.
Trouessart, E. L. 1904 A, 180.
Usher, W. 1854 A, 349 ("Ursus").
Pleistocene (Middle); Mississippi, Virginia.

Ursus procerus Miller.

Hay, O. P. 1902 A, 763.
Freudenberg, W. 1910 A, 13.
Hay, O. P. 1912 D, 772, text-figs. 71-73.
1923 A, 329.
Merrill, G. P. 1907 A, 62.
Trouessart, E. L. 1904 A, 180.
Pleistocene; Ohio.

Ursus vitabilis Gidley.

Gidley, J. W. 1913 B, 96, fig. 1 [U. (Euarctos)].
Hay, O. P. 1923 A, 350.
Pleistocene; Maryland.

Ursus sp. indet.

Freudenberg, W. 1922 A, 4. Pleistocene; Mexico.
Gilmore, C. W. 1908 A, 18. Pleistocene; Alaska.
Hartnagel and Bishop 1921 A, 81. Pleistocene (Wisconsin); New York.
Hay, O. P. 1923 A, 498. Pleistocene (Late); Tennessee.
1927 D, 313 (Ursus); 56, 107, 115 ("bear"). Pleistocene; Arizona, California.
Lucas, F. A. 1898 E, 718 (This genus?). St. Paul Island, Bering Sea.
McConnell, R. G. 1905 A, 29. Pleistocene; Klondike.
McCornack, E. C. 1920 A, 23. Pleistocene (Caves); California.
Merriam, J. C. 1911 B, 214 (This genus?). Pliocene (Thousand Creek); Nevada.
1912 A, 40, figs. 1, 2. Pleistocene (La Brea); California.
1917 A, 429 (This genus?). Pliocene (1000 Creek); Nevada: 439. Pleistocene? (Dunellon); Florida.
Merriam and Stock 1925 A, 10.
Miller, L. H. 1912 A, 70, 73, 81. Pleistocene (Potter Creek and Samwel caves); California: (Fossil Lake); Oregon.
Osborn, H. F. 1925 D, 531. Pleistocene (La Brea); California.
Quackenbush, L. S. 1909 A, 127. Pleistocene; Alaska and Klondike.

Sellards, E. H. 1916 C, 158 ("Ursus indt."). Pleistocene; Florida.
1916 E, 17. Pleistocene; Florida.
Sinclair, W. J. 1903 A, 711 ("sp. nov.").
1904 A, 17 ("Ursus n. sp."); 20 ("Ursus sp. indet.). Pleistocene (Fossil Lake); Oregon.
Stock, C. 1925 A, 30, 113, 195. Pleistocene (La Brea, caves); California: (Christmas Lake); Oregon.
Swarth, H. S. 1915 A, 18. Pleistocene (La Brea); California.

EUARCTOS Gray. Type *Ursus americanus* Pallas.

Gray, J. E. 1864, Proc. Zool. Soc. Lond., 692.
Lockwood, S. 1884 A, 376 (Ursus).
Miller, G. S. 1912 B, 74 (As subgenus).
1924 C, 90.
1927 A, 10.

Euarctos americanus (Pallas).

Unless otherwise indicated, the authors cited use the generic name *Ursus* for this species.

Hay, O. P. 1902 A, 763.
Anderson, R. J. 1902 B, 368.
1909 A, 745.
Baker, F. C. 1920 A, 474.
Brown, A. E. 1904 B, 96.
Brown, B. 1908 A, 183.
Calvin, S. 1911 A, 209, pl. xviii ("bear").
Carruccio, A. 1913 B, 174.
Cleland, J. 1863 B, 298.
Coleman, A. P. 1913 B, 18, 29 ("large bear." This species?).
1914 A, 448 ("bear").
Collett, J. 1883 A, 73 ("bear").
Cope, E. D. 1895 G, 596 (U. arctos).
Cuvier, G. 1825 A, IV, 318, 333, 336 ("ours noir").
Ehrenberg, K. 1926 A, 55.
Elliot, D. G. 1901 A, 313, pl. xxxiv.
Foote, J. S. 1916 A, 106, pl. xii.
Foster, J. W. 1869 A, 253.
1873 A, 91.
Frassetto, F. 1903 A, 177.
Frech and Geinitz 1903 A, 36.
Freudenberg, W. 1910 A, 12, pl. iv, fig. 3 (fig. 1 ?).
1921 A, 138.
1922 A, 4.
Frick, C. 1926 A, 17, 110, 119.
Furlong, E. L. 1904 A, 54.
1906 A, 243.
Gidley, J. W. 1913 B, 96 [U. (Euarctos). This species?].
Goddard, P. E. 1927 A, 68 ("bear").
Grant, M. 1904 B, 192.
Gregory, W. K. 1920 A, 149, fig. 82.
Harlan, R. 1835 C, 329, pl. xiv, fig. 26.
Hartnagel and Bishop 1921 A, 81, pl. xix.
Hasse and Schwarck 1870 A, 103.
Haug, E. 1911 A, 1873, 1887.
Hay, O. P. 1912 D, 770.
1914 A, 26, 32, 475, pl. lxxiii, fig. 7.
1920 B, 106, 117, 141.
1923 A, 498.
1924 D, 247, 252, 296.
1927 D, 214 (Ursus).
1928 C, 425, 428, 429 (Ursus).
Holland, W. J. 1912 B, 750.
Hrdlička, A. 1903 A, 360, fig. 34 ("black bear").
Leidy, J. 1889 H, 18.
Leighton, M. M. 1921 A, 513.
Lockwood, S. 1884 A, 376 (Ursus).
Lydekker, R. 1884 A, 208.
Merriam and Stock 1925 A, 18 (Ursus).
Miller, G. S. 1912 B, 75.
Miller, L. H. 1912 A, 73 (Ursus; subg. Euarctos).
1924 C, 90 (Euarctos).
Newton, E. T. 1913 A, 253 ("american black bear").
Osborn, H. F. 1910 B, 467, 469, 477, 478, 488, 490 (This species?).
Peterson, O. A. 1926 A, 292 (Ursus).
Pocock, R. J. 1914 B, 930, text-figs. 10, 13.
1921 B, 405, fig. 8 (Euarctos).
Rhoads, S. N. 1903 A, 228.
Scharff, R. F. 1911 A, 28.
Schmidt, E. 1872 A, 245.
Scott, W. B. 1913 A, 548, fig. 274.
Seton, E. T. 1909 A, 1052, pls. xcii, xcvii; text-figs. 242-247, maps 55, 56.
Shimek, B. 1902 A, 285.
1910 B, 334 ("Ursus." This species?).
Smallwood, W. M. 1903 A, 26.
Smith, B. 1914 B, 65, pl. i.
Stromer, E. 1902 A, 145.
Tornier, G. 1910 A, 558, fig. 8.
Usher, W. 1854 A, 349 ("Ursus").
Van Deinse, A. B. 1912 A, 348.
Virchow, H. 1909 A, 421.
1910 A, 10.
1913 A, 41, 52, fig. 4.
Weidenreich, F. 1922 B, 133, fig. 28.
Whittlesey, C. 1866 A, 16 ("bear." This species?).
Zdansky, O. 1928 A, 33, 40 (Ursus).
Pleistocene; Iowa, Maryland, Illinois, Texas, Mexico.

Euarctos floridanus (Merriam).

Unless otherwise indicated, the authors, as cited, use for this species the generic name *Ursus*.

Merriam, C. H. 1896 A, 81.
Baker, F. C. 1920 A, 474.
Bangs, O. 1898 A, 221.
Elliot, D. G. 1901 A, 314.
Gidley, J. W. 1927 E, 274 (This species?).
Grant, M. 1904 B, 192.
Hay, O. P. 1917 E, 46.
1920 B, 94, pl. iii, figs. 17-20.
1923 A, 382, 395.
1927 D, 274.
Merriam, C. H. 1896 A, 66.
Miller, G. S. 1912 B, 76.
Trouessart, E. L. 1904 A, 181.
Recent: Florida: Pleistocene; Florida, Tennessee.

THALARCTOS Gray. Type *Ursus maritimus* Phipps.

Gray, J. E. 1825 A, 62.
Miller, G. S. 1924 C, 106.
Stejneger, L. 1928 A, 157.
Weber and Abel 1928 A, 331 (Ursus).

Thalarctos maritimus (Phipps).

Phipps, C. J. 1744, Voyage toward North Pole, 185 (Ursus).
Elliot, D. G. 1901 A, 310, pl. xxxii [Ursus (Thalassarctus)].
Lucas, F. A. 1898 E, 718 ("bear").
Miller, G. S. 1912 A, 298, figs. 54-57.
Preble, E. A. 1923 A, 103.

Recent; Arctic regions: Pleistocene?; St. Paul's Island, Bering Sea.

ARCTOTHERIUM Bravard. Species *A. latidens, A. angustidens* Bravard.

Bravard, A. 1857, Observ. Géol. sur le bassin de la Plata.
Hay, O. P. 1902 A, 763 (Arctodus, in part).
Chardin, T. 1922 A, 25.
Ameghino, C. 1916 A, 285.
Ameghino, F. 1885 A, 20, 146, 204.
1889 A, 1006.
1902 C, 226.
1904 B, 39.
1905 C, 448, fig. 93 (Arctotherium); 447 (Arctotherinæ).
1906 A, 397.
1912 A, 60.
1912 B, 177 (Arctotherium); 178 (Arctotherinæ).
Barbour, E. H. 1916 A, 352.
Beddard, F. E. 1902 A, 445.
Boule and Thevenin 1920 A, 231.
Burmeister, H. 1866 B, 144 (Ursus).
1879 B, 169 (Ursus).
Cope, E. D. 1880 U, 158.
1899 A, 221 (Tremarctos).
Flower and Lydekker 1891 A, 561, fig. 257.
Frech and Geinitz 1903 A, 36, 39.
Freudenberg, W. 1910 A, 6.
Frick, C. 1921 A, 341.
1926 A, 18, 47, 78.
Gervais, P. 1855 A, 7, pl. iv, figs. 1-3 (Ursus).
1855 B, 332, pl. v, fig. 1 ("grands ours").
1859 A, 189.
1873 B, 16, 41, pl. xxv (Ursus, Arctotherium).
Gidley, J. W. 1912 C, 19.
1928 A, 430.
Giebel, C. G. 1878 C, 854.
1883 A, 124 (Arctodon).
Gill, T. 1881 A, 387.
Hay, O. P. 1912 B, 14 (Arctodus).
1925 D, 245.
Heilprin, A. 1887 A, 389.
Ihering, H. 1910 A, 175.
Kraglievich, L. 1926 A, 2.
Lambe, L. M. 1911 A, 21.
Lockwood, S. 1884 A, 373.
Lydekker, R. 1885 B, 157.
Matthew, W. D. 1910 G, 155, 159.
1915 A, 198.
1915 K, 402.
1924 C, 121.
1924 E, 748.
1928 B, 971.
Merriam, J. C. 1911 A, 163 (Arctodus).
1912 A, 40.
1915 G, 101.
1921 B, 184 ("arctotheres").
1924 A, 352.
Merriam and Stock 1925 A, 3-35, fig. 1.
1927 A, 43.
Merriam, Stock, Moody 1916 A.
1925 A, 62.
Miller, L. H. 1915 B, 71.
Neuville, H. 1915 A, 9 (Arctitherium).
Osborn, H. F. 1909 D, 87, 89.
1910 B, 606.
Palmer, T. S. 1904 A, 119, 837.
Peterson, O. A. 1926 A, 286.
Pilgrim, G. E. 1914 A, 228.
Roth, S. 1908 A, 138 ("arctotherien").
Rusconi, C. 1927 A, 279, figs. 1-4.
Scharff, R. F. 1911 A, 351.
Scott, W. B. 1913 A, 205, 549, 622, 676.
1916 A, 119 ("short-faced bears").
Simpson, G. G. 1926 L, 174.
Stock and Furlong 1926 A, 46.
Trouessart, E. L. 1904 A, 181 (Syn. of Tremarctos).
Winge, H. 1895 B, 31, pl. vi, figs. 1-4; pl. vii (Ursus).
1896 A, 118 (Ursus).
1924 A, 197.
Woodward, A. S. 1900 G, 75.
1902 A, 326.
Zittel and Schlosser 1911 A, 391 (Arctodus).
1923 A, 472, 680, 681.

Arctotherium californicum Merriam.

Merriam, J. C. 1911 A, 164, figs. 1-3.
Abel, O. 1926 B, 237.
Gidley, J. W. 1928 A, 431.
Hay, O. P. 1927 D, 184, 191, 213.
Kraglievich, L. 1926 A, 8, 13, fig. 1 (Tremarctotherium).
Merriam, J. C. 1912 A, 39.
Merriam and Stock 1925 A, 7, 15, 19, 23, 24, 31, pl. iii; pl. iv, figs. 1, 2; pl. v, fig. 2; pl. vi, figs. 2-9; pl. vii; pl. viii, figs. 1-9; pls. ix, x; text-figs. 1-6.
Miller, L. H. 1912 A, 78.
Osborn, H. F. 1925 D, 529, 531.
Rusconi, C. 1927 A, 282 (Arctotherium); 286, 289 (Tremarctotherium).
Stock, C. 1925 A, 30.
Wyman, L. E. 1922 A, 23 ("Arctotherium").

Pleistocene (La Brea); California.

Arctotherium simum Cope.

Hay, O. P. 1902 A, 763 (Arctodus).
Ameghino, F. 1885 A, 148.
1889 A, 320.
Freudenberg, W. 1910 A, 7, pl. i, fig. 1; pl. iii, fig. 1; pl. iv, fig. 2; text-fig. 1.
1921 A, 137, 138.

Freudenberg, W. 1922 A, 4.
Gidley, J. W. 1928 A, 431.
Gill, T. 1881 A, 387.
Hay, O. P. 1918 B, 26.
1927 D, 197, 215.
Kraglievich, L. 1926 A, 8, 13.
Le Conte, J. 1882 B, 8 ("bear").
Lockwood, S. 1884 A, 407.
Merriam, J. C. 1912 A, 41, fig. 3.
Merriam and Stock 1921 A, 567 (This species?).
1925 A, 3, 7, 10, 11, 13, 19, 24, pls. i, ii; pl. iv, fig. 3; pl. v, fig. 6; pl. vi, fig. 1; pl. viii, fig. 3; text-fig. 6.
Merriam, Stock, and Moody 1916 A, 95.
1925 A, 64.
Miller, L. H. 1912 A, 70.
Osborn, H. F. 1910 B, 477 ("Arctotherium").
1925 D, 533.
Rusconi, C. 1927 A, 286, 289 (Tremarctotherium).
Sinclair, W. J. 1903 A, 708, 711.
Sinclair, W. J. 1904 A, 17.
Stock, C. 1925 A, 113.
Swarth, H. S. 1915 A, 18 ("Arctotherium").
Yates, L. G. 1903 A, 118.
Pleistocene (Potter Creek cave); California: Mexico.

Arctotherium yukonense Lambe.

Lambe, L. M. 1911 A, 24, pls. i-iii.
Abel, O. 1914 A, 77, fig. 43.
Gidley, J. W. 1928 A, 431.
Kraglievich, L. 1926 A, 16 (To Tremarctotherium).
Lambe, L. M. 1911 B, 271 (A. simum).
1912 A, 14.
Merriam and Stock 1925 A, 7, 9.
Pleistocene; Yukon.

Arctotherium sp. indet.

Matthew, W. D. 1918 A, 226, 229 (This genus?).
Pleistocene (Sheridan); Nebraska.

TREMARCTOS Gervais. Type *Ursus ornatus* F. Cuvier.

Gervais, P. 1855, Nat. Hist. Mamm., II, 20-21, text-fig.
Ameghino, F. 1885 A, 150.
Cope, E. D. 1899 A, 221.
Gidley, J. W. 1928 A, 430 (Tremarctos, Tremarctinæ).
Kraglievich, L. 1926 A, 2, 8.
Peterson, O. A. 1926 A, 287.

Tremarctos sp. indet.

Gidley, J. W. 1925 A, x.
1927 E, 274.
Pleistocene; Florida.

INDARCTUS Pilgrim. Type *I. salmontanus* Pilgrim.

Pilgrim, G. E. 1913 A, 290.
Frick, C. 1926 A, *passim* (Indarctos).
Kraglievich, L. 1926 A, 2 (Indarctos).
Matthew, W. D. 1928 B, 971 (Indarctos).
Merriam, J. C. 1917 A, 428, 443 (Indarctos).
1924 C, 115 (Indarctos).
Merriam and Stock 1925 A, 5, 12 (Indarctos).
1925 B, 64 (Indarctos).
Merriam, Stock, Moody 1916 A, 93 (Indarctos).
1925 A, 64 (Indarctos).
Osborn, H. F. 1918 A, 24, 33 (Indarctos).
Pilgrim, G. E. 1914 A, 225, pl. xx.
Rusconi, C. 1927 A, 282 (Indarctos).
Zdansky, O. 1924 B, 16 (Indarctos).
Zittel and Schlosser 1923 A, 471, 680 (Indarctos).

Indarctus? oregonensis Merriam, Stock and Moody.

Merriam, Stock, Moody 1916 A, 90, figs. 1-4, 8, 9, 13, 15-22 (Indarctos).
Frick, C. 1921 A, 341, 345, 346 (Indarctos).
Frick, C. 1926 A, 44, 77, 81, 89, tab. 2, figs. 26, 30 (Indarctos).
Kraglievich, L. 1926 A, 8 (Indarctos).
Merriam, J. C. 1917 A, 428 (Indarctos?).
Merriam and Stock 1925 A, 6, 11, pl. v, figs. 3, 4; text-fig. 1 (Indarctos).
1927 A, 43, pl. i (Indarctos near oregonensis).
Merriam, Stock, and Moody 1925 A, 58, 61, figs. 11-16 (Indarctos).
Rusconi, C. 1927 A, 282.
Stock, C. 1925 A, 18 (Indarctos. This genus?).
Stock and Furlong 1926 A, 46 (Indarctos?).
Zdansky, O. 1924 B, 22, 23 (Indarctos).
Pliocene (Rattlesnake); Oregon.

Indarctus sp. indet.

Matthew, W. D. 1918 A, 185 (Indarctos).
Miocene (Snake Creek); Nebraska.
Merriam, Stock, Moody 1925 A, 58, 65, fig. 17 (This genus?). Pliocene (Rattlesnake); Oregon.

ARCTODUS Leidy. Type *A. pristinus* Leidy.

Leidy, J. 1854 C, 90.
Hay, O. P. 1902 A, 763.
Freudenberg, W. 1901 A, 6.
Gidley, J. W. 1928 A, 430.
Kraglievich, L. 1926 A, 14.
Merriam and Stock 1925 A, 7.
Palmer, T. S. 1904 A, 118, 837.
Peterson, O. A. 1926 A, 286.
Trouessart, E. L. 1904 A, 181.
Wallace, A. R. 1876 A, II, 202.
Weber and Abel 1928 A, 340.
Zittel and Schlosser 1911 A, 391.
1923 A, 472.

Arctodus floridanus Gidley.

Gidley, J. W. 1928 A, 432.
Early Pleistocene; Florida.

Arctodus haplodon (Cope).

Hay, O. P. 1902 A, 763.
Baker, F. C. 1920 A, 208, 214, 397.
Cope, E. D. 1895 F, 446 (Arctotherium pristinum).
Frech and Geinitz 1903 A, 36 (Ursus).
Freudenberg, W. 1910 A, 9 (Syn. ? of Arctodus pristinus).
Gidley, J. W. 1928 A, 431.
Haug, E. 1911 A, 1886 (Arctotherium).
Hay, O. P. 1923 A, 479 (Arctotherium).
Holland, W. J. 1908 A, 231.
1912 B, 750.
Kraglievich, L. 1926 A, 15 ("haplodon").
Merriam and Stock 1925 A, 5, 7 (Arctotherium).
1927 A, 43 (Arctotherium).
Osborn, H. F. 1910 B, 469, 471.
Peterson, O. A. 1926 A, 286, pls. xxiv, xxv (Arctotherium).
Rhoads, S. N. 1903 A, 228 (Arctotherium).
Schlosser, M. 1899 M, 362 (Ursus).
1902 H, 141 (Ursus).
Pleistocene (Port Kennedy and Frankstown caves); Pennsylvania.

Arctodus pristinus Leidy.

Hay, O. P. 1902 A, 763.
Freudenberg, W. 1910 A, 9 (Arctotherium).
Hay, O. P. 1923 A, 363.
Kraglievich, L. 1926 A, 14.
Merriam and Stock 1925 A, 7.
Pleistocene; South Carolina, Mexico?

AGRIOTHERIUM Wagner. Type *Ursus sivalensis* Falconer and Cautley.

Wagner, A. 1837, Gelehrte Anz. Bayer. Akad., v, 335.
Ameghino, F. 1885 A, 150 (Hyænarctos).
Arldt, T. 1907 D, 659 (Hyænarctos).
Blainville, H. M. 1864 A (1841) II, fasc. ix, 96, 100 (Amphiarctos); 113 (Sivalarctos).
Bose, P. N. 1880 A, 119 (Hyænarctos).
Cautley and Falconer 1836 A, 192 (Ursus).
Falconer, H. 1868 A, I, 321, 551, pl. xxvi and explan. [Ursus (Hyænarctos)].
Falconer and Cautley 1845, in Owen, R. 1845 B, pt. iii, 504, 505 (Hyænarctos).
1846 A, 131 [Ursus (Hyænarctos)].
Falconer and Murchison 1867 A, 131 [Ursus (Hyænarctos)].
Flower, W. H. 1877 A, 534, 2 figs. (Hyænarctos).
Freudenberg, W. 1910 A, 13 (Hyænarctos).
Frick, C. 1926 A, 5, 7, 17, 59, 64, 70, figs. 1, 19-41 (Hyænarctos).
Gaillard, C. 1898 A, 1239 (Hyænarctos).
Gaudry, A. 1891 C, 53, fig. 21 (Hyænarctos).
Gervais, P. 1853 C, 229, pl. xii (Hyænarctos).
1859 A, 207, pl. lxxx (Hyænarctos).
Hoernes, R. 1886 A, 693 (Hyænarctos).
Kraglievich, L. 1926 A, 2 (Hyænarctos).
Lockwood, S. 1884 A, 407 (Hyænarctos).
Lydekker, R. 1884 A, 219, pls. xxix-xxxi (Hyænarctos).
1885 B, 150 (Hyænarctos).
Matthew, W. D. 1924 C, 108, 115, 121 (Hyænarctos, Hyænarctus); 115 (Agriotherium).
1928 B, 971, 974, fig. 13 (Hyænarctos).
Merriam, J. C. 1917 A, 433 (Hyænarctos).
Owen, R. 1845 B, 505, pl. cxxxi (Hyænarctos).
Romer and Sutton 1927 A, 458 (Hyænarctos).
Sellards, E. H. 1916 B, 98.
Stehlin, H. G. 1907 A, 219 (Hyænarctos).
Weber and Abel 1928 A, 340 (Hyænarctos).

Agriotherium gregoryi (Frick).

Frick, C. 1921 A, 342, figs. 49-51 (Hyænarctos).
1926 A, 30, 65, 74, 81, 83, tab. 2, figs. 19, 27, 35 (Hyænarctos gregori).
1926 C, 441 (Hyænarctos gregori).
Gregory and Hellman 1923 B, 523, figs. 11-13 (Hyænarctos).
Kraglievich, L. 1926 A, 8 (Hyænarctos).
Merriam and Stock 1925 A, 8, 13 (Hyænarctos).
Stock, C. 1925 A, 21 (Hyænarctos).
Lower Pliocene (Eden); California.

Agriotherium schneideri Sellards.

Sellards, E. H. 1916 B, 98, pl. xii, figs. 1, 2.
Frick, C. 1921 A, 341.
1926 A, 63, 75, 81, 84, tab. 2, figs. 26, 28, 36 (Hyænarctos).
Hay, O. P. 1923 A, 380.
Merriam, J. C. 1917 A, 439.
Merriam and Stock 1925 A, 18, 20, pl. v, fig. 7.
Pliocene (Bone Valley); Florida.

Agriotherium sp. indet.

Freudenberg, W. 1910 A, 13, pl. ii, fig. 2; pl. iii, fig. 3; text-fig. 3 (Hyænarctos). Pliocene?; Mexico.
1921 A, 131 (Hyænarctos). Miocene; Mexico.
1922 A, 4 (Hyænarctos). Pliocene; Mexico.
Frick, C. 1926 A, 65, 85, tab. 2, figs. 29, 38 (Hyænarctos). Pliocene; Mexico; 80, 81 (Hyænarctos). Pliocene (Upper Snake Creek); Nebraska.
Matthew, W. D. 1923 A, 12 (Hyænarctos). Lower Pliocene (Upper Snake Creek); Nebraska.
1924 C, 65 (Hyænarctus); 116 (Hyænarctos). Lower Pliocene (Upper Snake Creek); Nebraska.

DINARCTOTHERIUM Barbour.

Barbour, E. H. 1916 A, 349, 353 (Dinarctotherium; Gigantofelis, an alternative name).
Rusconi, C. 1927 A, 282.
A genus of somewhat uncertain position.

Dinarctotherium merriami Barbour.

Barbour, E. H. 1916 A, 349, figs. 1-6.
Frick, C. 1921 A, 342.
Rusconi, C. 1927 A, 283, 286.
Pleistocene; Nebraska.

MUSTELIDÆ Swainson.

Swainson, W. 1835, Nat. Hist. and Class. Quad., vii, 102, 361.
Hay, O. P. 1902 A, 765.
Abel, O. 1912 F, 501.
1913 B, 716.
1914 A, 77.
1919 A, 743.
Ameghino, F. 1889 A, 1019.
1906 C, 41 ("mustélidés").
Anthony, R. 1905 A, 854 ("mustélidés").
1912 A.
Arldt, T. 1907 D, 666.
1912 A, 702.
Bayer, F. 1897 A, 147.
Beddard, F. E. 1902 A, 431.
Behlen, H. 1907 A ("musteliden").
Birula, A. A. 1910 A, 318.
1913 A, 274.
Boas, J. E. V. 1914 B, 580 ("musteliden").
Bonaparte, C. L. 1832 A, 287 (Mustelina).
Brandt and Woldrich 1887 A, 49 (Mustelina).
Carlson, A. 1921 A, 71.
Carus, V. 1875 A, 127 (Mustelida).
Case, E. C. 1899 B, 180.
Chandler, A. C. 1914 B, 134.
Depéret, C. 1906 A, 619.
1906 B, 1121 ("mustélidés").
1907 B ("mustélidés").
1908 A, 306.
1912 A, 708 ("mustélidés").
Doran, A. H. G. 1878 A, 395, 406.
Elliot, D. G. 1901 A, 319.
Frassetto, F. 1903 A, 222.
Fuchs, H. 1906 A, 12 ("musteliden").
Gervais, P. 1859 A, 243 ("mustélidés").
Giebel, C. G. 1878 C, 854 ("mustelinen").
1883 A ("mustelinen").
Grant, M. 1904 B, 193, 205.
Gray, J. E. 1821 A, 301 (Mustelladæ).
Gregory, W. K. 1920 A, 156.
Hay, O. P. 1914 A, 479.
1923 A, 312.
Hilzheimer, M. 1913 A, 566.
Hoernes, R. 1886 A, 693.
Ihering, H. 1910 A, 168.
Jaeger, G. F. 1842 A, 435 ("mustelen").
Kampfen, P. N. 1905 A, 532.
Leche, W. 1887 A.
1910 A, 450.
1915 A, 322.
Leunis and Ludwig 1883 A, 194.
Lobley, J. L. 1908 A, 194, 200, 204.
Lockwood, S. 1884 A, 385.
Lydekker, R. 1903 D, 124 ("weasel-tribe").
Mackie, S. J. 1863 D, 340.
Matthew, W. D. 1901 A, 7.
1905 D, 40.
1907 A, 179, 193, 194, 198, 199.
1909 C, 103, 105, 107, 110, 112, 114, 116, 118, 120.
1909 D, 330, 414.
1915 A, 221.
1915 K, 445, fig. 17.
1924 C, 128.
1928 B, 973, 974, fig. 13.
Matthew and Granger 1924 A, 6.
Mead, C. S. 1906 A, 481.
Meckel, J. F. 1825 A ("mustelen").
Miller, G. S. 1912 A, 340.
1912 B, 92.
1923 A, 13.
1924 C, 114.
Neuville, H. 1915 A, 9 ("mustélidés").
O'Harra, C. C. 1910 A, 84, 130, 133.
1920 A, 87.
Osborn, H. F. 1905 I, 103, 106.
1909 D, 130.
1910 B, 624.
Owen, R. 1868 A, 894.
Palmer, T. S. 1904 A, 755, 830.
Perna, G. 1906 A, 122 (Mustelina).
Pilgrim, G. E. 1913 A, 290.
Pocock, R. I. 1914 B, 913.
1918 B, 307.
1921 A, 803, 829.
Pohl, L. 1909 A, 381 ("musteliden").
1911 A, 126.
Rehs, J. 1914 A, 56.
Retterer, E. 1916 A, 765 ("mustélidés").
Reynolds, S. H. 1912 A, 1, 12, pls. i-viii.
Römer, F. 1907 A, 72 ("musteliden").
Schlosser, M. 1902 J, 256 ("musteliden").
Schwalbe, G. 1904 A, 207 ("musteliden").
Scott, W. B. 1913 A, 517, 518, 550, 686.
Seton, E. T. 1909 A, 817.
Steinmann, G. 1907 A, 473.
Stromer, E. 1902 A.
Taschenberg, O. 1899 A, 4635.
Terra, P. 1911 A, 282.
Trouessart, E. L. 1904 A, 187.
Vicq-d'Azyr, F. 1792 A, civ (Mustelini).
Wallace, A. R. 1876 A, i, 144; ii, 198.
1894 A, 435.
Weber, M. 1904 A, 536.
Weber and Abel 1928 A, 308, 318, 332.
Winge, H. 1896 A, 126, 127.
1924 A, 178, 192, 200, 204, 243.
Wortman, J. L. 1901 B, xii, 143.
1920 A, 17 ("mustelines").
Zittel and Schlosser 1911 A, 392.
1923 A, 472, 482, 670.

MUSTELINÆ Gill.

Gill, T. 1872 B, 6, 64.
Hay, O. P. 1902 A, 766.
Arldt, T. 1907 B, 449 ("mustelinen").
Beddard, F. E. 1902 A, 433.
Birula, A. 1910 A, 320.
Coues, E. 1877 A, 9, 33.
Elliot, D. G. 1901 A, 333.
Giebel, C. G. 1855 A, 32.
Gray, J. E. 1869 A, 81 (Mustelina).
Hensel, R. 1879 A, 540 ("mustelinen").
Ihering, H. 1910 A, 168.
Leche, W. 1910 A, 450 (Mustelini).
Lydekker, R. 1884 A, 178.
1912 B, 222.
Miller, G. S. 1912 A, 364 (Mustelinæ).
1912 B, 92.

Miller, G. S. 1924 C, 114.
Osborn, H. F. 1910 B, 530.
Palmer, T. S. 1904 A, 755, 830 (Mustelini).
Pocock, R. I. 1921 A, 803, 832 (Mustelinæ, Martinæ).
Steenstrup and Sundevall 1860 A, 272 ("mustelinen").
Trouessart, E. L. 1904 A, 197.
Weber and Abel 1928 A, 333.
Winge, H. 1924 A, 178, 200, 204 (Mustelini).
Zdansky, O. 1924 B, 31 (Martinæ); 28 (Putoriinæ).
Zittel and Schlosser 1911 A, 392, 394 (Putoriinæ, Martinæ).
1923 A, 474 (Martinæ, Putoriinæ).

BUNÆLURUS Cope. Type *B. lagophagus* Cope.

Hay, O. P. 1902 A, 767.
Chardin, T. 1915 A, 181 (Bunailurus).
Depéret, C. 1912 A, 708.
Haug, E. 1911 A, 1528.
Leche, W. 1915 A, 345.
Matthew, W. D. 1902 B, 137.
1905 D, 41, fig. 16.
1909 C, 110.
1915 K, 420.
1924 C, 130.
Matthew and Granger 1924 A, 6.
1924 B, 8, fig. 6.
Osborn, H. F. 1907 G, 141, fig. 101.
1909 D, 63.
1910 B, 214, 530.
Palmer, T. S. 1904 A, 147, 830.
Scott, W. B. 1913 A, 551.
Wallace, A. R. 1876 A, I, 134.
Wortman, J. L. 1901 B, XII, 145.
Zittel and Schlosser 1911 A, 393.
1923 A, 473.

Bunælurus infelix Matthew.

Matthew, W. D., 1903 B, 210.
1909 C, 103.
Oligocene (Lower); Montana.

Bunælurus lagophagus Cope.

Hay, O. P. 1902 A, 767.
Matthew, W. D. 1901 B, 357.
1902 A, 137, figs. 1-3.
1909 C, 105.
Trouessart, E. L. 1904 A, 201.
Zittel and Schlosser 1911 A, 393, fig. 559.
1923 A, 473, fig. 598.
Oligocene (White River); Colorado.

OLIGOBUNIS Cope. Type *Octocyon crassivultus* Cope.

Hay, O. P. 1902 A, 770.
Heilprin, A. 1887 A, 388.
Lydekker, R. 1908 A, 507.
Matthew, W. D. 1907 A, 174, 181, 193, 199.
1909 C, 110, 118.
1924 C, 129.
Merriam, J. C. 1906 A, 33, 59.
Osborn, H. F. 1909 D, 66, 75.
1910 B, 230, 288, 530.
1912 G, 249.
Palmer, T. S. 1904 A, 473, 825.
Peterson, O. A. 1910 A, 275.
Pilgrim, G. E. 1912 A, 13.
Schlosser, M. 1902 A, 137.
Scott, W. B. 1913 A, 551.
Studer, Th. 1906 A, 56 (Oligobænus).
Weber, M. 1904 A, 542.
Wortman, J. L. 1901 B, XI, 449.
Zittel and Schlosser 1911 A, 394.
1923 A, 474, 672.

Oligobunis crassivultus Cope.

Hay, O. P. 1902 A, 770.
Matthew, W. D. 1907 A, 193.
1909 C, 107.
Merriam, J. C. 1906 A, 5.
Merriam and Sinclair 1907 A, 184.
Thorpe, M. R. 1921 C, 482.
Trouessart, E. L. 1904 A, 222.
Oligocene (John Day); Oregon.

Oligobunis darbyi Thorpe.

Thorpe, M. R. 1921 C, 480, figs. 4, 5.
Lower Miocene (Lower Harrison); Nebraska.

Oligobunis lepidus Matthew.

Matthew, W. D. 1907 A, 172, 194, figs. 8, 9.
Cook, H. J. 1909 D, 270, fig. 6 (This species?).
1912 D, 40 (This species?).
Leche, W. 1915 A, 346.
Matthew, W. D. 1909 C, 112 (O. lepidus); 193 (var. robustior).
O'Harra, C. C. 1920 A, 155.
Peterson, O. A. 1910 A, 276.
Thorpe, M. R. 1921 C, 483 (var. robustior).
Lower Miocene (Upper Rosebud); South Dakota: (Lower Harrison); Nebraska.

Oligobunis sp. indet.

Matthew, W. D. 1909 C, 105 (This genus?).
Oligocene (Brule); South Dakota, etc.

PAROLIGOBUNIS Peterson. Type *Brachypsalis simplicidens* Peterson.

Peterson, O. A. 1910 A, 269, 275.
Matthew, W. D. 1924 C, 129.
Zittel and Schlosser 1911 A, 393.
1923 A, 474.

Paroligobunis simplicidens Peterson.

Peterson, O. A. 1906 C, 35, 44, fig. 10 (Brachypsalis).
Cook, H. J. 1912 D, 40.
Matthew, W. D. 1909 C, 112 (Brachypsalis?).
O'Harra, C. C. 1920 A, 155 (Paroligobunis, Brachypsalis?).
Peterson, O. A. 1910 A, 269, figs. 64-68.
Lower Miocene (Harrison); Nebraska.

PARICTIS Scott. Type *P. primævus* Scott.

Hay, O. P. 1902 A, 767.
Matthew, W. D. 1924 C, 130.

Parictis primævus Scott.

Hay, O. P. 1902 A, 767.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 184.
Upper Oligocene (John Day); Oregon.

ÆLUROCYON Peterson. Type *A. brevifacies* Peterson.

Peterson, O. A. 1906 C, 68.
Matthew, W. D. 1907 A, 179, 203.
1909 C, 118.
1924 C, 130.
Moodie, R. L. 1918 D, 506, 508, fig. 37 (Æleurocyon).
1923 B, 126, pl. xxiii.
Osborn, H. F. 1909 D, 74.
1910 B, 280, 530.
1912 G, 249.
Peterson, O. A. 1910 A, 278.
Scott, W. B. 1913 A, 551.
Zittel and Schlosser 1911 A, 393.
1923 A, 474, 672.

Ælurocyon brevifacies Peterson.

Peterson, O. A. 1906 C, 68, figs. 17-19.
Cook, H. J. 1912 D, 42 (A. brevifaces).
Matthew, W. D. 1909 C, 112.
O'Harra, C. C. 1920 A, 155.
Miocene (Lower); Nebraska.

BRACHYPSALIS Cope. Type *B. pachycephalus* Cope.

Cope, E. D. 1890 I, 951.
Hay, O. P. 1902 A, 768 (Pomatotherium, *errore*).
Matthew, W. D. 1909 C, 118.
1924 C, 129, 131.
Osborn, H. F. 1909 D, 74, 80.
1910 B, 530.
Palmer, T. S. 1904 A, 143, 830.
Scott, W. B. 1913 A, 517.
Zittel and Schlosser 1911 A, 394.
1923 A, 474.

Brachypsalis marshalli Martin.

Martin, H. T. 1928 A, 233, pl. xx.
Pliocene; Kansas.

Brachypsalis? matutinus Matthew.

Matthew, W. D. 1924 C, 65, 133, figs. 32, 33.
Upper Miocene (Sheep Creek); Nebraska.

Brachypsalis modicus Matthew.

Matthew, W. D. 1918 A, 185, 195, figs. 4, 5.
1924 C, 65, 131, figs. 30, 31.
Thorpe, M. R. 1922 E, 443.
Miocene (Upper Snake Creek); Nebraska.

Brachypsalis obliquidens Sinclair.

Sinclair, W. J. 1915 A, 76, 79, fig. 3.
Matthew, W. D. 1918 A, 185, 196.
1924 C, 65, 131.
Merriam, J. C. 1917 A, 436.
Thorpe, M. R. 1922 E, 443.
Miocene (Lower Snake Creek); Nebraska.

Brachypsalis pachycephalus Cope.

Hay, O. P. 1902 A, 768 (Pomatotherium, *errore*).
Matthew, W. D. 1904 C, 245.
1909 C, 116.
1924 C, 131, 133.
Merriam, J. C. 1917 A, 436.
Peterson, O. A. 1910 A, 277, fig. 69.
Sinclair, W. J. 1915 A, 76.
Thorpe, M. R. 1922 E, 443.
Miocene? (Arikaree); Nebraska: (Ogallala); Kansas.

Brachypsalis sp. indet.

Matthew, W. D. 1923 A, 12. Pliocene (Upper Snake Creek); Nebraska.

MEGALICTIS Matthew. Type *M. ferox* Matthew.

Matthew, W. D. 1907 A, 172, 179, 195, 199, 203.
1909 C, 118.
1909 D, 415.
Osborn, H. F. 1909 D, 75.
1912 G, 249.
Scott, W. B. 1913 A, 551.
Zittel and Schlosser 1911 A, 393.
1923 A, 474, 672.

Megalictis ferox Matthew.

Matthew, W. D. 1907 A, 172, 196, 197, 202, figs. 10-16.
1909 C, 112.
O'Harra, C. C. 1910 A, 84, 130.
1920 A, 155.
Miocene (Upper Rosebud); South Dakota.

MARTES Pinel. Type *M. foina* Erxleben.

Pinel, — 1792, Actes Soc. d'Hist. Nat., Paris, I, 55.
Chardin, T. 1915 A, 181.
Cuvier, F. 1807 A, 120 ("martes").

Cuvier, F. 1825 A, 86, pls. xxvi, xxvii ("martes").
Cuvier, G. 1825 A, IV, 239, pl. xvii.
Doran, A. H. G. 1878 A, 396, pl. lix.
Fischer, J. B. 1829 A, 214.
Gervais, P. 1852 A, 117.
  1859 A, 247.
Gidley, J. W. 1927 C, 240.
Hasse and Schwarck 1870 A, 96.
Hensel, R. 1853 A, 16.
Köstlin, O. 1844 A.
Meckel, J. F. 1825 A.
Merriam, J. C. 1915 F, 259 ("marten").
Miller, G. S. 1912 A, 365.
  1924 C, 114.
  1927 A, 12.
Palmer, T. S. 1904 A, 400, 832.
Pocock, R. I. 1918 B, 309, fig. d.
Retzius, A. 1849 A, 624.
Reynolds, S. H. 1912 A, 3, pl. ii (Mustela).
Schlosser, M. 1924 A, 14.
Scott, W. B. 1913 A, 551.
Seton, E. T. 1909 A, 901.
Wallace, A. R. 1876 A, II, 198.
Weber and Abel 1928 A, 333.

Martes americana (Turton).

Turton, W. 1806, Syst. Nat., I, 60 (Mustela).
Hay, O. P. 1902 A, 767 (Mustela).
Elliot, D. G. 1901 A, 334, fig. 66 (Mustela).
Miller, G. S. 1912 B, 92.
  1924 C, 114.
Osborn, H. F. 1909 D, 90 (Mustela).
Seton, E. T. 1909 A, 901, pls. lxxix, lxxxi; text-figs. 216-221, map 49.
Sinclair, W. J. 1915 A, 80.
  Recent; eastern North America: Late Pleistocene?; caves at Carlisle, Pennsylvania.

Martes caurina nobilis Hall.

Hall, E. R. 1926 A, 127, pl. xiv.
Hay, O. P. 1927 D, 214, 215.
Miller, G. S. 1924 C, 115 (M. caurina).
  Pleistocene (caves); California.

Martes kingseyi Gidley.

Gidley, J. W. 1927 C, 239, fig. 1.
  Miocene (Madison Valley); Montana.

Martes pennanti Erxleben.

Hay, O. P. 1902 A, 767 (Mustela).
Brown, B. 1908 A, 179 (Mustela).
Elliot, D. G. 1901 A, 337 (Mustela).
Haug, E. 1911 A, 1887 (Mustela).
Hay, O. P. 1914 A, 32.
  1924 D, 252.
Lockwood, S. 1884 A, 404 (Mustela).
Matthew, W. D. 1915 K, 402.
Miller, G. S. 1912 B, 94.
  1924 C, 116.
Osborn, H. F. 1910 B, 488 (Mustela).
Seton, E. T. 1909 A, 926, text-figs. 222, 223, map 50.
  Recent; northern North America: Pleistocene? (Late); Pennsylvania.

Martes sp. indet.

Gidley, J. W. 1920 B, 283 ("martens"). Pleistocene (Middle); Maryland.
Stock, C. 1925 A, 20. Lower Pliocene (Pinole-Orinda-Siesta); California.

PLIONICTIS Matthew. Type *P. ogygia* Matthew.

Matthew, W. D. 1924 C, 135.

Plionictis glareæ (Sinclair).

Sinclair, W. J. 1915 A, 76, 80, fig. 4 (Martes).
Matthew, W. D. 1918 A, 185, 195 (Martes).
  1924 C, 65, 71 (Plionictis); 135 (M.).
Merriam, J. C. 1917 A, 436 (Martes).
  Upper Miocene (Lower Snake Creek); Nebraska.

Plionictis ogygia (Matthew).

Matthew, W. D. 1901 B, 358, 374, 383, text-figs. 8, 9 (Mustela).
  1905 D, 41, fig. 17 (Mustela).
  1909 C, 114 (Mustela).
  1924 C, 71, 135 (Mustela, Plionictis).
Sinclair, W. J. 1915 A, 80 (Martes).
Trouessart, E. L. 1904 A, 204 (Mustela).
  Middle Miocene (Pawnee Creek); Colorado.

Plionictis parviloba (Cope).

Cope, E. D. 1890, in Scott and Osborn 1890 B, 71 (Mustela parviloba. To replace *Ælurodon mustelinus* preoccupied).
Hay, O. P. 1902 A, 767 (Mustela).
Matthew, W. D. 1901 B, 383 (Mustela).
  1909 C, 114 (Mustela).
  1924 C, 65, 71, 136, fig. 35 (Plionictis); 135 (M.).
Sinclair, W. J. 1915 A, 81 (Martes).
  Upper Miocene (Pawnee Creek); Colorado.

MUSTELA Linnæus. Type *M. martes* Linnæus.

Hay, O. P. 1902 A, 767.
Allen, J. A. 1892 A.
  1903 A.
Ameghino, F. 1906 C, 42, figs. 1, 2.
Arldt, T. 1907 D, 255.
Beddard, F. E. 1902 A, 435.
Birula, A. 1910 A, 323.
Brauer, A. 1914 A, 282.
Braun, M. 1906 A, 674, fig. 1.
Bronn, H. G. 1848 A, 760.
Bronn, H. G. 1849 A, 722.
Carus and Engelmann 1861 A, 1772.
Cope, E. D. 1880 U, 158.
Cuvier, G. 1805 A.
Depéret, C. 1912 A, 709.
Dieterich, K. 1841 A, 77.
Doran, A. H. G. 1878 A, 396.
Eimer, G. H. T. 1901 A, 260.
Elliot, D. G. 1901 A, 333.
Fischer, J. B. 1829 A, 214.

Frey, H. 1911 A, 412.
Fuchs, H. 1912 C, 507.
Gegenbaur, C. 1864 C, 187.
 1865 C, 559.
Geinitz, E. 1903 A.
 1904 A.
Gervais, P. 1852 A, 115, 118, explan. pl. xxiii.
 1859 A, 247, pl. xxiii (Martes).
Gidley, J. W. 1927 C, 241.
Giebel, C. G. 1855 A, 32, pls. xii-xiv.
 1883 A, pls. xiv, xv, lxxx, lxxxvi.
Gottlieb, H. 1914 A, 189.
Grant, M. 1904 B, 205.
Gregory, W. K. 1920 A, 155, fig. 95.
Hasse and Schwarck 1870 A, 95, figs. 29-31.
Heilprin, A. 1887 A, 390.
Hensel, R. 1879 A, 540.
Hollister, N. 1913 A, 471 [M. (Lutreola)].
Kampfen, P. N. 1905 A, 535.
Köstlin, O. 1844 A.
Leche, W. 1910 A, 450.
Leunis and Ludwig 1883 A, 194.
Lockwood, S. 1884 A, 398, 404.
Lull, R. S. 1922 C, 603.
Mackie, S. J. 1863 D, 340.
Martins, C. 1857 A, 90.
Matthew, W. D. 1909 C, 118.
 1909 D, 324, text-fig. 3.
 1915 K, 402.
 1924 C, 130.
 1928 B, 974, fig. 13.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
Merriam, J. C. 1911 B, 216.
Miller, G. S. 1912 A, 381.
 1912 B, 95.
 1924 C, 116.
 1927 A, 12.
Nehring, A. 1880 A.
Osborn, H. F. 1907 G, 141, fig. 100.
 1909 D, 80, 90.
 1910 B, 624.
Owen, R. 1845 B, 497.
Palmer, T. S. 1904 A, 436, 832.
Pander and Alton 1822 A, 7 ("wiesel").
Paulli, S. 1900 B, 497, fig. 11.
Pictet, F. J. 1853 A, 216, pl. iv, fig. 6.
Pocock, R. I. 1921 A, 804.
Pohl, L. 1909 A, 388, fig. 6.
Rehs, J. 1914 A, 56.
Römer, F. 1907 A, 72.
Scharff, R. F. 1895 A, 442.
Schlosser, M. 1924 A, 14.
Schmidt, O. 1886 A, 275.
Schwalbe, G. 1904 A, 207.
Sclater, P. L. 1875 A, 219.
Scott, W. B. 1913 A, 517, 551.
Seton, E. T. 1909 A, 872 (Putorius).
Stromer, E. 1902 A.
 1902 B, 557.
Taschenberg, O. 1899 A, 4635.
Terra, P. 1911 A, 282.
Trouessart, E. L. 1904 A, 204.
Turner, H. N. 1847 A, 111.
Van den Broeck, A. J. P. 1912 A, 783.
Wallace, A. R. 1876 A, I, 115, 118, 146; II, 198.
Wallisch, W. 1906 A, 308.
Weber, M. 1904 A, 536, 542.
Weber and Abel 1928 A, 333.
Wiegmann, F. R. 1838 B, 265, 271, 278.
Wilder, B. 1872 B, 319.
Winge, H. 1896 A, 130.
 1924 A, 178, 200.
Zdansky, O. 1924 B, 30.
Zittel and Schlosser 1911 A, 393.
 1923 A, 474, 673.

Mustela arizonensis (Mearns).

Mearns, E. A. 1891, Bull. Amer. Mus. Nat. Hist., III, 234 (Putorius).
Elliot, D. G. 1901 A, 349 (Putorius).
Furlong, E. L. 1904 A, 54 (Putorius).
 1906 A, 243 (Putorius).
Merriam, C. H. 1896 B, 22, figs. 12-14 (Putorius).
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 99.
 1924 C, 122.
Miller, L. H. 1912 A, 70, 73 (Putorius).
Sinclair, W. J. 1903 A, 711 (Putorius).
 1904 A, 17 (Putorius).
Stock, C. 1925 A, 113.
 Recent; western North America: Pleistocene (Caves); California.

Mustela? buwaldi Merriam, J. C.

Merriam, J. C. 1919 A, 525, 527, 542, fig. 154.
 1917 A, 430 (No description).
 Lower Pliocene (Ricardo); California.

Mustela cicognanii angustidens Brown.

Brown, B. 1908 A, 181, pl. xvii.
Hay, O. P. 1914 A, 32.
 1924 D, 252.
Merriam, C. H. 1896 A, 10, pl. ii, figs. 3, 4 (Putorius cicognani).
Osborn, H. F. 1910 B, 488 ("weasel").
Seton, E. T. 1909 A, 840, text-figs. 204-206 (Putorius cicognanii).
 Pleistocene (Middle); Arkansas.

Mustela diluviana Cope.

Hay, O. P. 1902 A, 767.
Baker, F. C. 1920 A, 208, 215, 397.
Hay, O. P. 1923 A, 312, 314.
Rhoads, S. N. 1903 A, 229.
Schlosser, M. 1902 H, 141.
Trouessart, E. L. 1904 A, 204.
 Pleistocene (Early); Pennsylvania.

Mustela furlongi Merriam.

Merriam, J. C. 1911 B, 211, 213, 214, 249, fig. 22.
 1917 A, 429.
Sinclair, W. J. 1915 A, 81 (Martes).
 Pliocene (Thousand Creek); Nevada.

Mustela gracilis (Brown, B.).

Brown, B. 1908 A, 182, pl. xvii (Putorius).
Hay, O. P. 1914 A, 32.
 1924 D, 252.
 Pleistocene (Middle); Arkansas.

Mustela macrodon (Prentiss).

Prentiss, D. W. 1903 A, 887, fig. a (Lutreola).
Hardy, M. 1903 A, 125 ("extinct mink").
Hollister, N. 1913 A. 478.

Loomis, F. B. 1911 A, 227, figs. 1-3 (Lutreola vison antiquus).
Loomis and Young 1912 A, 27.
Recent or Pleistocene (Shell-heaps); Maine.

Mustela minor Douglass.

Douglass, E. 1903 A, 154, 192, fig. 30 (This genus?).
Matthew, W. D. 1909 C, 116.
Sinclair, W. J. 1915 A, 81 (Martes).
Miocene (Arikaree); Montana.

Mustela noveboracensis (Emmons).

Emmons, E. 1840, Rep. Quadr., Massachusetts, 45 (Putorius).
Hay, O. P. 1902 A, 768 (Putorius erminius).
Baird, S. F. 1857 A, 166, pl. xxxvi, fig. 3 (Putorius).
Bangs, O. 1896 A, 13, pl. i, fig. 2; pl. ii, fig. 2; pl. iii, fig. 3 (Putorius).
Coues, E. 1877 A, 109, pl. vi, figs. 1, 3, 5-7 (Putorius erminea).
Elliot, D. G. 1901 A, 346 (Putorius).
Hay, O. P. 1923 A, 310.
Leidy, J. 1889 H, 5 (Putorius ermineus).
Mercer, H. C. 1894 A, 98 ("weasel").
Merriam, C. H. 1896 B, 16, pl. iv, figs. 1, 2; pl. v, fig. 3 (Putorius).
Miller, G. S. 1912 B, 97.
1924 C, 120.
Rhoads, S. N. 1903 A, 229 (Putorius).
Scharff, R. F. 1907 A, 24 (Putorius erminea).
Recent; Maine to North Carolina and Illinois: Pleistocene?; Pennsylvania.

Mustela vison Schreber.

Schreber, J. C. D. 1777, Säugethiere, pl. 127*b*.
Hay, O. P. 1902 A, 768 (Putorius).
Brown, B. 1908 A, 180, pl. xvii (Putorius).
Doran, A. H. G. 1878 A, 396.
Elliot, D. G. 1901 A, 338 (Putorius).
Gidley, J. W. 1913 B, 96 (This species?).
Haug, E. 1911 A, 1887 (Putorius).
Hay, O. P. 1914 A, 32.
1923 A, 350.
1924 D, 252.
Hollister, N. 1913 A, 472.
Lockwood, S. 1884 A, 398 (Putorius).
Matthew, W. D. 1915 K, 402 (Lutreola).
Miller, G. S. 1912 B, 101.
1924 C, 125.
Osborn, H. F. 1910 B, 488 (Putorius).
Osborn and Anthony 1922 A, 226 (Putorius); 227 (Lutreola).
Seton, E. T. 1909 A, 872, pl. lxxviii, map 48.
Recent; North America: Pleistocene (Early, Middle); Pennsylvania, Maryland, Arkansas, Canada.

Mustela sp. indet.

Furlong, E. L. 1904 A, 55. Pleistocene (Samwel Cave); California.
1906 A, 245. Pleistocene (Samwel Cave); California.
Hay, O. P. 1927 D, 184, 191. Pleistocene; California.
Merriam, J. C. 1917 A, 428. Pliocene (Rattlesnake); Oregon.
Merriam and Stock 1925 A, 10.
Merriam, Stock, Moody 1925 A, 58, 67, figs. 18, 19 (M. n. sp.). Pliocene (Rattlesnake); Oregon.
Miller, L. H. 1912 A, 73. Pleistocene (Samwel Cave); California.
Osborn, H. F. 1925 D, 531. Pleistocene (La Brea); California.
Stock, C. 1925 A, 30, 113. Pleistocene (La Brea and caves); California: Lower Pliocene (Rattlesnake); Oregon.

PUTORIUS Cuvier. Type *Mustela putorius* Linnæus.

Hay, O. P. 1902 A, 768.
Allen, J. A. 1892 A.
1903 A.
Bärthold, 1904 A, 367.
Bangs, O. 1896 A, 2.
Beddard, F. E. 1902 A, 435.
Beer, G. R. 1926 A, 329, figs. 105, 106.
Birula, A. 1910 A, 323.
Brandt and Woldrich 1887 A, 5, 54.
Bronn, H. G. 1848 B, 1064.
1849 A, 722.
Butterworth, E. M. 1916 A, 22 (Martes).
Chardin, T. 1915 A, 181.
Cuvier, F. 1807 A, 120 ("putois").
Elliot, D. G. 1901 A, 338.
Foote, J. S. 1916 A, 94, 117, pls. ix, xiv.
Frech, F. 1906 A, 483.
Fuchs, H. 1912 C, 507.
Gervais, P. 1859 A, 251.
Giebel, C. G. 1883 A, pls. xv, xvi.
Grant, M. 1904 B, 205.
Heilprin, A. 1887 A, 390.
Hollister, N. 1913 A, 471 (Lutreola).
Hue, E. 1907 A, pls. xxviii, lxxv, lxxix, xcv, cxxii, cxxxiii, clxiv.
Ihering, H. 1910 A, 168.
Kampfen, P. N. 1905 A, 532.
1907 A, 695, fig.
Leche, W. 1912 A, 74.
1915 A, 330.
Leunis and Ludwig 1883 A, 195.
Lockwood, S. 1884 A, 398.
Mackie, S. J. 1863 D, 341.
Matthew, W. D. 1909 C, 118.
1924 C, 130.
Merriam, C. H. 1892 A, 62.
1896 B, 7.
Miller, G. S. 1912 A, 418.
Osborn, H. F. 1909 D, 80, 89, 90.
1910 B, 301, 488, 530.
Owen, R. 1845 B, 497.
1868 A, 904.
Palmer, T. S. 1904 A, 598, 833.
Pictet, F. J. 1853 A, 218.
Pocock, R. I. 1918 B, 308.
1921 A, 804, 832.
Pohl, L. 1909 A, 390, fig. 9.
Rehs, J. 1914 A, 56.
Römer, F. 1907 A, 72.
Scharff, R. W. 1907 A, 24.

Scott, W. B. 1913 A, 152, fig. 60 (Lutreola).
Schwalbe, G. 1904 A, 207.
Stromer, E. 1902 A.
Taschenberg, O. 1899 A, 4663.
Trouessart, E. L. 1904 A, 205.
Voit, M. 1923 A, 74, fig. 3 ("wiesel").
Wiegmann, F. R. 1838 B, 265, 271, 278.
Wilder, B. 1872 B, 319.
Zittel and Schlosser 1911 A, 393.
1923 A, 474.

Putorius nambianus (Cope).

Cope, E. D. 1874 U, 147 (Martes).
Hay, O. P. 1902 A, 768.
Matthew, W. D. 1909 C, 116.
Merrill, G. P. 1907 A, 44 (Martes); 49 (Mustela); 59 (Putorius).
Sinclair, W. J. 1915 A, 81 (Martes).
Miocene (Santa Fe); New Mexico.

Putorius sp. indet.

Miller, L. H. 1912 A, 78. Pleistocene (La Brea); California.

CANIMARTES Cope. Type *C. cumminsii* Cope.

Hay, O. P. 1902 A, 774.
Haug, E. 1911 A, 1706.
Hay, O. P. 1923 A, 2.
Matthew, W. D. 1924 C, 129.
Osborn, H. F. 1909 D, 83.
1910 B, 366, 530.
Palmer, T. S. 1904 A, 157, 823.
Scott, W. B. 1913 A, 517.

Canimartes cumminsii Cope.

Hay, O. P. 1902 A, 774.
Dumble, E. T. 1894 A, 559.
Gidley, J. W. 1903 C, 627.
Matthew, W. D. 1909 C, 120.
Merriam, J. C. 1917 A, 434.
Montgomery, T. H. 1904 A, 58.
Osborn, H. F. 1910 B, 366.
Upper Pliocene (Blanco); Texas.

GULONINÆ.

Arldt, T. 1912 A, 748 (Guloneæ).
Gray, J. E. 1825 A, 339 (Gulonina).
Miller, G. S. 1912 A, 432 (Guloninæ).
1924 C, 128.
Palmer, T. S. 1904 A, 743, 830 (Gulonini).
Pocock, R. I. 1921 A, 833.
Zittel and Schlosser 1923 A, 474 (Gulinæ).

GULO Pallas. Type *Ursus gulo* Linnæus.

Pallas, P. S. 1780, Spicil. Zool., fasc., 14, 25.
Hay, O. P. 1902 A, 768.
Allen, J. A. 1892 A.
1903 A.
Arldt, T. 1907 D, 311.
Bardeleben, K. 1885 B, 86.
Beddard, F. E. 1902 A, 435.
Birula, A. 1910 A, 321.
Boas, J. E. V. 1909 A, 529, fig. 10.
Bonsdorff, E. J. 1871 A, 318.
Bronn, H. G. 1848 A, 558.
1849 A, 723.
Cope, E. D. 1880 U, 156.
Coues, E. 1877 A, 32.
Cuvier, F. 1807 A, 120, 122 ("gloutons").
1825 A, 88, pl. xxxii ("gloutons").
Doran, A. H. G. 1878 A, 397.
Eimer, G. H. T. 1901 A, 139, 216.
Elliot, D. G. 1901 A, 333.
Fischer, J. B. 1829 A, 154.
Frech, F. 1907 A, 315 ("vielfras").
Frick, C. 1926 A, 47.
Gervais, P. 1852 A, 117.
1853 B, 40 ("glouton").
1859 A, 247.
Giebel, C. G. 1855 A, 33, pl. xii, fig. 13.
1878 C, 854 ("vielfrasse").
1883 A, pls. xiv, xlix, lviii, lxxii, lxxix, lxxxv, lxxxix.
Heilprin, A. 1887 A, 390.
Hensel, R. 1879 A, 554.
Hue, E. 1907 A, pls. xxvii, lxxiv, lxxx, xcv, cix, cxxiii, cxxxiii, cxlvi, clxiv, clxxvi.
Kampfen, P. N. 1905 A, 535.
Köstlin, O. 1844 A.
Leche, W. 1915 A, 326.
Le Damany, P. 1903 D, 351, fig. 1 ("glouton").
1906 B, 164 ("gloutons").
Leunis and Ludwig 1883 A, 196.
Lobley, J. L. 1908 A, 195.
Lockwood, S. 1884 A, 395.
Lydekker, R. 1884 A, 178.
Mackie, S. J. 1863 D, 340.
Matschie, P. 1896 A, 250, 252 ("vielfras").
1901 A, 308, 315.
1918 A, 141, pls. i-v.
Matthew, W. D. 1924 C, 130.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1912 A, 433.
1912 B, 94.
Moreau, L. J. 1900 A, 115 ("glouton").
Nehring, A. 1880 A.
Neuville, H. 1915 A, 9 ("glouton").
Owen, R. 1845 B, 495, 497, pl. cxxviii, figs. 7-9.
1866 B, 501.
Palmer, T. S. 1904 A, 302, 831.
Pander and Alton 1822 A, 10, pl. v.
Pictet, F. J. 1853 A, 214, pl. iv, figs. 4, 5 ("gloutons").
Pohl, L. 1909 A, 385, fig. 3.
Scott, W. B. 1917 A, 131 ("wolverines").
Serres, M. 1852 A, 119.
Seton, E. T. 1909 A, 945.
Stromer, E. 1902 A.
Terra, P. 1911 A, 283, fig. 105.
Trouessart, E. L. 1904 A, 197.
Wallace, A. R. 1876 A, II, 199.
Weber and Abel 1928 A, 334.
Wiegmann, F. R. 1838 B, 258, 272.
Winge, H. 1896 A, 127.

Winge, H. 1924 A, 178, 201, 243.
Zdansky, O. 1924 B, 39.
Zittel and Schlosser 1911 A, 393.
    1923 A, 474.

Gulo luscus (Linnæus).

Hay, O. P. 1902 A, 768.
Arldt, T. 1907 D, 605.
Baker, F. C. 1920 A, 208, 215, 397.
Beddard, F. E. 1902 A, 435.
Brandt and Woldrich 1887 A, 50 (G. borealis).
Coues, E. 1877 A, 34, pl. i.
Cuvier, G. 1825 A, IV, 241, 477, pls. xvii, xxxviii.
Doran, A. H. G. 1878 A, 395, pl. lviii.
Elliot, D. G. 1901 A, 333, pl. xxxvi.
Fischer, J. B. 1829 A, 154 (G. arcticus).
Foote, J. S. 1916 A, 134, pl. xviii.
Frech, F. 1906 A, 481, 484 ("vielfras").
Frech and Geinitz 1903 A, 36.
Gidley, J. W. 1920 B, 282 ("wolverine." This species?).
Hay, O. P. 1923 A, 486.
Leche, W. 1915 A, 326, figs. 85-88.
Lockwood, S. 1884 A, 395, fig. 183.
Matschie, P. 1918 A, 154.
Miller, G. S. 1912 B, 94.
Newton, E. T. 1882 A, 17, pl. vi, figs. 1, 1*a*.
    1891 A, 11.
Pocock, R. I. 1918 B, 308.
Reynolds, S. H. 1912 A, 7, text-figs. 1, 2.
Rhoads, S. N. 1903 A, 229.
Römer, F. 1907 A, 66.
Scharff, R. F. 1911 A, 27, 85.
Seton, E. T. 1909 A, 945, text-fig. 224, map 51.
Stromer, E. 1902 A, 173.
Weber, M. 1904 A, 537.
Zittel and Schlosser 1911 A, 393.
    1923 A, 474.

Recent; Canadian zone from Atlantic to Pacific: Pleistocene; Pennsylvania.

GRISONINÆ.

Miller, G. S. 1924 C, 132.

GRISON Oken. Type *Viverra vittata* Schreber.

Unless otherwise indicated the authors, as quoted, employ for this genus the name *Galictis*.

Oken, L. 1816, Lehrb. d. Naturgesch. pt. 3, II, 1000 (Grison).
Hay, O. P. 1902 A, 767.
Ameghino, F. 1889 A, 1013.
Beddard, F. E. 1902 A, 433.
Bell, T. 1841 A, 201.
Birula, A. 1910 A, 322.
Bronn, H. G. 1849 A, 722.
Frech and Geinitz 1903 A, 36.
Giebel, C. G. 1855 A, 34, pl. xii.
    1883 A, pls. xv, xvi.
Heilprin, A. 1887 A, 90.
Hensel, R. 1879 A, 549.
Kampfen, P. N. 1905 A, 533.
Leche, W. 1915 A, 326.
Leunis and Ludwig 1883 A, 196.
Lockwood, S. 1884 A, 397 (Galictis).
Lydekker, R. 1912 B, 222, fig. 31.
Matthew, W. D. 1924 C, 130 (Galictis).
Miller, G. S. 1912 B, 103 (Grison).
    1924 C, 132.
Owen, R. 1845 B, 491, 494, pl. cxxviii, figs. 1-3.
Palmer, T. S. 1904 A, 230, 831 (Galictis); 300, 831 (Grison).
Pictet, F. J. 1853 A, 215.
Pocock, R. I. 1918 B, 311, figs. *a-c* (Grison).
Stromer, E. 1902 A.
Weber, M. 1904 A, 537 (Galera).
Weber and Abel 1928 A, 334.
Wiegmann, F. R. 1838 B, 272, 276, 278.
Winge, H. 1895 B, 38, pl. viii.
    1896 A, 121.
    1924 A, 178, 201, 202, 243.
Zittel and Schlosser 1911 A, 393.
    1923 A, 474.

Grison macrodon (Cope).

Hay, O. P. 1902 A, 767 (Galictis).
Cope, E. D. 1867 F, 138 ("Galera"; no description).
Hay, O. P. 1919 D, 367.
    1923 A, 220, 347.
Merrill, G. P. 1907 A, 44 (Lutreola).
Trouessart, E. L. 1904 A, 197 (Galicitis).

Pleistocene; Maryland.

MEPHITINÆ Gill.

Gill, T. 1872 B, 6, 65.
Hay, O. P. 1902 A, 765 (Melinæ).
Allen, J. A. 1901 C, 325.
    1902 D, 59.
Arldt, T. 1912 A, 748 (Mephiteæ).
Gray, J. E. 1869 A, 133 (Mephitina).
Howell, A. H. 1902 A, 1.
Lockwood, S. 1884 A, 389.
Miller, G. S. 1924 C, 132.
Taschenberg, O. 1899 A, 4621.

BRACHYPROTOMA B. Brown. Type *B. pristina* Brown.

Brown, B. 1908 A, 176.
    1905 A, 300 (No description).
Matthew, W. D. 1915 K, 402.
Osborn, H. F. 1909 D, 90.
    1910 B, 488, 531.

Brachyprotoma fossidens (Cope).

Hay, O. P. 1902 A, 766 (Mephitis).
Baker, F. C. 1920 A, 208, 214, 397 (Mephitis).
Brown, B. 1908 A, 176.
Hay, O. P. 1923 A, 312 (Mephitis).
Howell, A. H. 1901 A, 16 (Mephitis).
Rhoads, S. N. 1903 A, 230 (Mephitis).
Schlosser, M. 1899 M, 362 (Mephitis fodiens).
    1902 H, 142 (Mephitis).

Pleistocene (Early, Middle); Pennsylvania, Arkansas.

Brachyprotoma leptops (Cope).

Hay, O. P. 1902 A, 766 (Mephitis).
Baker, F. C. 1920 A, 208, 215, 297 (Mephitis).
Brown, B. 1908 A, 166.
Hay, O. P. 1923 A, 312 (Mephitis).
Howell, A. H. 1901 A, 17 (Mephitis).
Rhoads, S. N. 1903 A, 230 (Mephitis).
Schlosser, M. 1902 H, 142 (Mephitis).
Trouessart, E. L. 1904 A, 192 (Mephitis).
Pleistocene (Early); Pennsylvania.

Brachyprotoma obtusata (Cope).

Hay, O. P. 1902 A, 766 (Mephitis).
Baker, F. C. 1920 A, 208, 215, 397 (Mephitis).
Brown, B. 1908 A, 166 (B. obtusatus).
Hay, O. P. 1923 A, 312 (Mephitis).
Howell, A. H. 1901 A, 19 (Mephitis).
Peterson, O. A. 1926 A, 285, fig. 7.
Rhoads, S. N. 1903 A, 230 (Mephitis).
Schlosser, M. 1902 H, 142 (Mephitis).
Pleistocene (Early); Pennsylvania.

Brachyprotoma pristina Brown.

Brown, B. 1908 A, 177, pl. xvi.
Hay, O. P. 1914 A, 32.
Pleistocene (Middle); Arkansas.

Brachyprotoma spelæa Brown.

Brown, B. 1908 A, 179, pl. xvi.
Hay, O. P. 1914 A, 32.
Pleistocene (Middle); Arkansas.

OSMOTHERIUM Cope. Type *O. spelæum* Cope.

Hay, O. P. 1902 A, 766.
Frech and Geinitz 1903 A, 36.
Palmer, T. S. 1904 A, 486, 832.
Trouessart, E. L. 1904 A, 191.

Osmotherium spelæum Cope.

Hay, O. P. 1902 A, 766.
1923 A, 312.
Rhoads, S. N. 1903 A, 230.
Schlosser, M. 1899 M, 362.
1902 H, 141.
Trouessart, E. L. 1904 A, 191.
Pleistocene (Early); Pennsylvania.

MEPHITIS Cuvier.

Hay, O. P. 1902 A, 766.
Allen, J. A. 1892 A.
1902 D, 59.
Ameghino, F. 1889 A, 1017.
Baker, F. C. 1920 A, 208.
Bangs, O. 1896 C, 139.
Beddard, F. E. 1902 A, 439.
Birula, A. 1910 A, 325.
Boas, J. E. V. 1909 A, 530.
Bronn, H. G. 1848 A, 721.
1849 A, 722.
Cuvier, F. 1807 A, 122 ("moufettes").
1825 A, 89, pl. xxviii ("mouffettes").
Cuvier, G. 1805 A.
1825 A, IV, 241, 467, pls. xviii, xxxviii.
Elliot, D. C. 1901 A, 322.
Fischer, J. B. 1829 A, 159.
Foote, J. S. 1916 A, 117, pl. xiv.
Frech, F. 1907 A, 315.
Frech and Geinitz 1903 A, 36, 40.
Giebel, C. G. 1855 A, 34, pl. xiii, figs. 7, 10.
1878 C, 854.
1883 A, pl. xvi.
Grant, M. 1904 B, 193, 205.
Hay, O. P. 1914 A, 480.
Heilprin, A. 1887 A, 390.
Hensel, R. 1879 A, 550.
Howell, A. H. 1901 A, 14, 20 (Chincha).
1902 A, 1.
Ihering, H. 1910 A, 174.
Kampfen, P. N. 1905 A, 532.
Leche, W. 1915 A, 332.
Leunis and Ludwig 1883 A, 197.
Lockwood, S. 1884 A, 390.
Lydekker, R. 1884 A, 178.
Mackie, S. J. 1863 D, 340.
Matthew, W. D. 1915 K, 402.
1924 C, 130, 145.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 107.
1924 C, 136.
Osborn, H. F. 1909 D, 89, 90.
1910 B, 469, 531.
Owen, R. 1845 B, 495, 497, pl. cxxviii, fig. 11.
Palmer, T. S. 1904 A, 410, 832.
Pictet, F. J. 1853 A, 215.
Pocock, R. I. 1921 A, 809.
Schlosser, M. 1924 A, 11.
Scott, W. B. 1913 A, 153, 167, 517, 552.
1917 A, 134 ("skunks").
Seton, E. T. 1909 A, 966, pls. lxxx-lxxxiii, map 52.
Stromer, E. 1902 A.
1902 B, 555.
Taschenberg, O. 1889 A, 4621.
Taylor, W. P. 1916 A, 468.
Tornier, G. 1891 A, 151.
Trouessart, E. L. 1904 A, 191.
Wallace, A. R. 1876 A, I, 144.
Weber, M. 1904 A, 537.
Weber and Abel 1928 A, 334, 335.
Wiegmann, F. R. 1838 B, 263, 271, 278.
Wilder, B. 1872 B, 319.
Winge, H. 1896 A, 128.
1924 A, 178, 202, 243.
Zdansky, O. 1924 B, 33.
Zittel and Schlosser 1911 A, 395.
1923 A, 475.

Mephitis elongata (Bangs).

Bangs, O. 1895, Proc. Boston Soc. Nat. Hist., XXVI, 531 (M. mephitica elongata).
1896, Proc. Biol. Soc. Wash., x, 142.
Miller, G. S. 1924 C, 137.
Simpson, G. G. 1928 H, 2.
Recent; southeastern United States: Pleistocene (Early); Florida.

Mephitis frontata Coues.

Hay, O. P. 1902 A, 766.
Howell, A. H. 1901 A, 16.
Pleistocene? (Early); Pennsylvania.

Mephitis mesomelas avia Bangs.

Bangs, O. 1898, Proc. Biol. Soc. Wash., XII, 32 (M. avia).
Hay, O. P. 1902 A, 766 (M. mephitica, in part).
Calvin, S. 1909 B, 342 (M. mephitica).
Chamberlin, T. C. 1894 A, 759 (M. mephiticus).
Elliot, D. G. 1901 A, 327 (M. avia).
Hay, O. P. 1914 A, 480 (M. mesomelas); 481 (M. mephitis).
1923 A, 310, 311 (M. mephitis).
Howell, A. H. 1901 A, 30 (Chincha).
Leverett, F. 1899 A, 42, 124 (M. mephitica).
McGee, W J 1891 A, 495.
Miller, G. S. 1912 B, 108.
1924 C, 137.
Trouessart, E. L. 1904 A, 192.
Upham, W. 1895 B, 282 ("common skunk").
The identification is provisional.
Recent; western Indiana, Illinois and eastern Iowa: Pleistocene (Yarmouth); Iowa.

Mephitis mesomelas newtonensis (Brown).

Brown, B. 1908 A, 175, pl. xv (M. mephitica newtonensis).
Hay, O. P. 1914 A, 32 (M. mephitica newtonensis).
1924 D, 252.
Pleistocene (Middle); Arkansas.

Mephitis nigra (Peale and Beauvois).

Peale and Beauvois 1796, Catal. Peale's Mus., Philadelphia, 37.
Baker, F. C. 1920 A, 248, 283, 397 (M. mephitica).
Bangs, O. 1896 C, 140 (M. mephitica).
Hay, O. P. 1923 A, 490 (M. putida).
1924 D, 283 (M. putida).
Howell, A. H. 1901 A, 25, pls. i, v (Chincha putida).
Leidy, J. 1889 H, 18 (M. mephitica).
Mercer, H. C. 1894 A, 97 ("skunk").
Miller, G. S. 1912 B, 107 (M. putida).
Peterson, O. A. 1926 A, 284, fig. 6 (M. mephitica).
Rhoads, S. N. 1904 A, 230 (M. mephitis putida).
Trouessart, E. L. 1904 A, 192 (M. putida).
Recent; New England to Virginia and Indiana: Pleistocene; caves of Pennsylvania.

Mephitis occidentalis Baird.

Baird, S. F. 1857 A, 94.
Elliot, D. G. 1901 A, 324.
Furlong, E. L. 1904 A, 55.,
1906 A, 245.
Hay, O. P. 1927 D, 184, 215, 223.
Howell, A. H. 1901 A, 35, pls. iii, vii (Chincha).
Miller, G. S. 1924 C, 138.
Miller, L. H. 1912 A, 70, 73.
Osborn, H. F. 1925 D, 531.
Sinclair, W. J. 1903 A, 711.
1904 A, 17.
Stock, C. 1925 A, 113 ("new subsp.?").
Pleistocene (Caves); California.

Mephitis orthostica Cope.

Hay, O. P. 1902 A, 766 (M. orthrostica).
Baker, F. C. 1920 A, 208, 215, 397 (M. orthostichus).
Hay, O. P. 1923 A, 312.
Howell, A. H. 1901 A, 19.
Rhoads, S. N. 1903 A, 230 (M. orthostichus).
Schlosser, M. 1899 M, 362.
1902 H, 142 (M. orthostichus).
Pleistocene (Early); Pennsylvania..

Mephitis sp. indet.

Hay, O. P. 1923 A, 321. Pleistocene?; Pennsylvania.
1927 D, 184, 191. Pleistocene; California.
Miller, L. H. 1912 A, 78. Pleistocene (Rancho La Brea); California.
Stock, C. 1927 A, 156. Pleistocene; California.

PELYCICTIS Cope. Type *P. lobulatus* Cope.

Hay, O. P. 1902 A, 766.
Frech and Geinitz 1903 A, 36.
Palmer, T. S. 1904 A, 521, 832.
Trouessart, E. L. 1904 A, 191.

Pelycictis lobulatus Cope.

Hay, O. P. 1902 A, 766.
1923 A, 312.
Rhoads, S. N. 1903 A, 231.
Schlosser, M. 1899 M, 362.
1902 H, 142.
Trouessart, E. L. 1904 A, 191.
Pleistocene (Early); Pennsylvania.

SPILOGALE Gray. Type *Mephitis interrupta* Rafinesque.

Hay, O. P. 1902 A, 766.
Birula, A. 1910 A, 322 (Galera).
Elliot, D. G. 1901 A, 327.
Frech, F. 1907 A, 315.
Gregory, W. K. 1920 A, 155, fig. 97.
Howell, A. H. 1906 A.
Matthew, W. D. 1915 K, 402.
1924 C, 130.
Merriam, C. H. 1890 A, 1, pl. i; text-figs. 1, 2.
1892 A, 61.
Miller, G. S. 1924 C, 132.
Miller, L. H. 1912 A, 70 (Spilogale, n. sp.).
Osborn, H. F. 1909 D, 89, 90.
Pocock, R. I. 1921 A, 809.
Taylor, W. P. 1916 A, 457.
Winge, H. 1924 A, 202.

Spilogale ambarvalis Bangs.

Bangs, O. 1898 A, 222.
Coues, E. 1875 A, 12 (S. putorius, part).
1877 A, 239 [Mephitis (Spilogale) putorius].
Howell, A. H. 1906 A, 14, pl. iv, fig. 1; pl. v, figs. 1-3.
Merriam, C. H. 1890 A, 7, table (S. putorius).
Miller, G. S. 1912 B, 103.
1924 C, 132.

Recent; eastern Florida: Pleistocene (Middle ?); Florida.

Specimen in U. S. Nat. Mus. from Vero, St. Lucie County, Florida.

Spilogale interrupta (Rafinesque).

Rafinesque, C. S. 1820, Annals of Nature, I, 3 (Mephitis).
Brown, B. 1908 A, 176 (This species?).
Coues, E. 1877 A, 239 (Mephitis putorius, part).
Elliot, D. G. 1901 A, 328.
Hay, O. P. 1914 A, 32.
1924 D, 252.
Howell, A. H. 1906 A, 18, 36, pls. i, ii.
Merriam, C. H. 1890 A, 8, table.
Miller, G. S. 1912 B, 104.
1924 C, 133.

Recent; southwestern Minnesota to central Texas: Pleistocene (Middle); Arkansas.

Spilogale putorius (Linnæus).

Linnæus, C. 1758 A, 44 (Viverra).
Hay, O. P. 1902 A, 766 (S. perdicida).
Cope, E. D. 1896 F, 387 (Mephitis. S. perdicida a syn.).
Coues, E. 1877 A, 239, pls. xii-xiv (Mephitis).
Hay, O. P. 1923 A, 322, 353.
Miller, G. S. 1912 B, 103.
Schlosser, M. 1899 M, 362 (Mephitis. S. perdicida a syn.).

Recent; south Atlantic states, north in mountains to northern Virginia: Pleistocene (Middle?); Virginia.

Spilogale sp. indet.

Hay, O. P. 1927 D, 184, 191, 215. Pleistocene; California.
Merriam and Stock 1925 A, 10. Pleistocene (Potter Creek cave); California.
Osborn, H. F. 1925 D, 531. Pleistocene (La Brea); California.
Sinclair, W. J. 1903 A, 711 (Spilogale sp. nov.). Pleistocene (Potter Creek Cave); California.
1904 A, 17 (Spilogale n. sp.). Pleistocene (Potter Creek Cave); California.
Stock, C. 1925 A, 30. Lower Pliocene (Rattlesnake); Oregon.

TAXIDEINÆ.

Miller, G. S. 1924 C, 142 (Taxidiinæ).
Hay, O. P. 1902 A, 765 (Melinæ).
Ameghino, F. 1905 B, 193 (Meles).
Arldt, T. 1907 B, 449 ("melinen").
1907 D, 295 (Melinæ).
Baird, S. F. 1857 A, 190 (Melinæ).
Beddard, F. E. 1902 A, 432 (Melinæ).
Birula, A. 1910 A, 320 (Melinæ).
Cuvier, F. 1807 A, 120 ("blaireaux").
Elliot, D. G. 1901 A, 319 (Melinæ).
Fuchs, H. 1906 A, 30 (Meles).
Gervais, P. 1852 A, 116, explan. pl. xxiv (Meles).
1859 A, 246 (Meles).
Hay, O. P. 1914 A, 480 (Melinæ).
Hue, E. 1907 A, pls. xxvi, lxxv, lxxix, xciv, cix, cxxii, cxxxii, cxlvi (Meles).
Ihering, H. 1910 A, 172 (Melinæ).
Meckel, J. F. 1825 A ("dachse").
Owen, R. 1845 B, 498 (Melidæ).
Trouessart, E. L. 1904 A, 187 (Melinæ).
Weber, M. 1904 A, 537 (Melinæ).
Wilkie, H. C. 1926 A, 815, figs. 1, 3-5 (Meles).
Winge, H. 1924 A, 178, 202, 205 (Melini).
Zittel and Schlosser 1911 A, 394 (Melinæ).
1923 A, 475 (Melinæ).

TAXIDEA Waterhouse. Type *Ursus taxus* Schreber.

Waterhouse, G. R. Proc. Zool. Soc. Lond., 1838, 153.
Hay, O. P. 1902 A, 765.
Allen, J. A. 1892 A.
Anderson, R. J. 1902 B, 368, fig. (Meles).
Beddard, F. E. 1902 A, 438.
Birula, A. 1910 A, 326.
Bronn, H. G. 1848 A, 719 (Meles).
1849 A, 723 (Meles).
Butterworth, E. M. 1916 A, 22.
Coues, E. 1877 A, 261.
Cuvier, F. 1825 A, 93, pl. xxx ("blaireaux").
Cuvier, G. 1805 A (Taxus).
Dieterich, K. 1841 A, 76 (Meles).
Eimer, G. H. T. 1901 A, 138, 216.
Elliot, D. G. 1901 A, 319.
Frech, F. 1906 A, 481.
1907 A, 315.
Gervais, P. 1859 A, 246 (Meles).
Giebel, C. G. 1878 C, 854 ("dachse").
Grant, M. 1904 B, 193, 205.
Gregory, W. K. 1920 A, 154, fig. 94.
Gregory, W. K. 1921 A, 77.
Heilprin, A. 1887 A, 390.
Hensel, R. 1879 A, 550.
Kampfen, P. N. 1905 A, 535.
Leche, W. 1915 A, 335, fig. 108.
Le Damany, P. 1903 G, 330, fig. 18 ("blaireau").
Leunis and Ludwig 1883 A, 198.
Lockwood, S. 1884 A, 394.
Lönnberg, E. 1910 A, 120.
Lydekker, R. 1884 A, 178.
Martins, C. 1857 A, 90 ("blaireau").
Matthew, W. D. 1907 A, 198.
1924 C, 131, 144.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 112.
1924 C, 142.
Osborn, H. F. 1905 I, 110.
1909 D, 89.
1910 B, 439, 454, 470, 531.
Owen, R. 1845 B, 498.
1868 A, 333, 780.
Palmer, T. S. 1904 A, 665, 833.

Pander and Alton 1822 A, 8, pl. vii (Meles).
Pocock, R. I. 1920 B, 423-436.
1921 A, 804.
Scott, W. B. 1913 A, 153, 162, 168, 517.
Seton, E. T. 1906 A, 995.
Stromer, E. 1902 A (Meles).
Trouessart, E. L. 1904 A, 187.
Waterhouse, G. R. 1841 A, 343 (Meles).
Weber, M. 1904 A, 537.
Weber and Abel 1928 A, 334.
Weber and Burlet 1927 A, 113, fig. 86.
Winge, H. 1896 A, 128.
1924 A, 178, 203, 243.
Worthmann, F. 1922 A, 307, fig. 1 ("dachs").
Zdansky, O. 1924 B, 48.
Zittel and Schlosser 1911 A, 395.
1923 A, 475.

Taxidea nevadensis Butterworth.

Butterworth, E. M. 1916 A, 21, fig. 1.
Merriam, J. C. 1917 A, 429.
Zdansky, O. 1924 B, 51, 52 (Parataxidea).
Pliocene (Thousand Creek); Nevada.

Taxidea robusta Hay.

Hay, O. P. 1921 A, 631, pl. cxix, figs. 3-5.
1923 A, 9.
Pleistocene (Nebraskan?); Arizona.

Taxidea taxus (Schreber).

Schreber, J. C. D. 1778, Säugethiere, III, 520 (Ursus).
Hay, O. P. 1902 A, 765 (T. taxus, T. sulcata).
Baker, F. C. 1920 A, 214, 397.
Carruccio, A. 1913 B, 176 (Taxidea).
Coues, E. 1877 A, 263, pl. xvi (T. americana).
Dall and Harris 1892 A, 228 (T. sulcata).
Doran, A. H. G. 1878 A, 397 (T. americana).
Elliot, D. G. 1901 A, 320, fig. 63 (T. americana).
Foote, J. S. 1916 A, 145, pl. xx (T. americana).
Frech and Geinitz 1903 A, 36 (T. americana).
Gervais, P. 1859 A, 246, pl. xxiv, fig. 1 (Meles).
Hay, O. P. 1921 A, 631, pl. cxix, figs. 1, 2.
1923 A, 312.
1924 D, 169 ("badger"); 270 (Taxidea).
1927 D, 251.
Lockwood, S. 1884 A, 394 (T. americana).
Mackie, S. J. 1863 D, 334 (Meles).
Matthew, W. D. 1902 F, 321 (T. sulcata a syn.).
Miller, G. S. 1912 B, 112.
1924 C, 142.
Owen, R. 1845 B, 498, pl. cxxi, figs. 1, 2.
Pocock, R. I. 1920 B, 425, figs. 19, 20, 22-25 (T. americana).
Reynolds, S. H. 1912 A, 8, pls. iii-vii; text-figs. 3-5 (Meles).
Rhoads, S. N. 1903 A, 231.
Römer, F. 1907 A, 73 (Meles).
Scharff, R. F. 1907 A, 23, fig. 5.
Seton, E. T. 1909 A, 995, pl. lxxxiv; text-figs. 231-232, map 53.
Shufeldt, R. W. 1922 A, 173, pl. x.
Stock, C. 1925 A, 199 (T. sulcata).
Stromer, E. 1902 A, 183, pl. iii, fig. 16 (Meles).
Taylor, W. P. 1911 B, 296.
Waterhouse, G. R. 1841 A, 343, pl. lix (Meles labradoria).
Winge, H. 1896 A, 128.
Pleistocene; Pennsylvania, Washington, Kansas.

Taxidea sp. indet.

Anonymous 1871 A, 139. Pleistocene (La Brea); California.
Gidley, J. W. 1920 B, 283 ("badger"). Pleistocene (Middle); Maryland.
Hay, O. P. 1923 A, 350. Pleistocene (Middle); Maryland.
1927 D, 184, 191, 215. Pleistocene; California.
Merriam and Stock 1925 A, 10, 11 (Potter Creek Cave); California.
Miller, L. H. 1912 A, 70. Pleistocene (Potter Creek Cave); California.
Osborn, H. F. 1925 D, 531. Pleistocene (La Brea); California.
Sinclair, W. J. 1903 A, 711 (T. ? sp. nov.).
1904 A, 17 (T. sp. ?).
Stock, C. 1925 A, 30, 113. Lower Pliocene (Rattlesnake); Oregon: Pleistocene (La Brea and caves); California.

LEPTARCTUS Leidy. Type *L. primus* Leidy.

Hay, O. P. 1902 A, 764.
Ameghino, F. 1912 A, 59.
Beddard, F. E. 1902 A, 431.
Ihering, H. 1910 A, 159.
Joleaud, L. 1919 A, 710, fig. 7.
Kraglievich, L. 1925 A, 189.
Matthew, W. D. 1909 C, 118.
1915 A, 197, 219.
1924 C, 87, 131, 138, 142.
Osborn, H. F. 1909 D, 80.
Palmer, T. S. 1904 A, 370, 836.
Scott, W. B. 1913 A, 517, 547.
Wallace, A. R. 1876 A, I, 135.
Zittel and Schlosser 1911 A, 392.
1923 A, 472.

Leptarctus primus Leidy.

Hay, O. P. 1902 A, 764.
Beddard, F. E. 1902 A, 431 (L. primævus).
Dall and Harris 1892 A, 292.
Joleaud, L. 1919 D, 412 (Leptarcos primævus).
Matthew, W. D. 1909 C, 116.
1921 G, 661 ("Leptarctus").
1924 C, 65, 71, 88, 139, figs. 37, 38.
Upper Miocene (Lower Snake Creek); Nebraska, South Dakota?.

Leptarctus wortmani Matthew.

Matthew, W. D. 1924 C, 142.
Wortman, J. L. 1894 B, 229 (L. primus).
Lower Pliocene (Valentine); Nebraska.

LUTRINÆ Baird.

Baird, S. F. 1857 A, 183.
Hay, O. P. 1902 A, 768.
Arldt, T. 1907 B, 449 ("lutrinen").
1907 D, 295, 385.

Arldt, T. 1912 A, 748.
Beddard, F. E. 1902 A, 439.
Birula, A. 1910 A, 320.
Carus, J. V. 1875 A, 128 (Lutrina).
Depéret, C. 1908 A, 306.
Elliot, D. G. 1901 A, 351.
Giebel, C. G. 1883 A ("otter").
Gill, T. 1872 B, 6, 65.
Gray, J. E. 1825 B, 337 (Lutrinæ).
1869 A, 100 (Lutrina).
Ihering, H. 1910 A, 168.
Lucae, J. P. 1872 A, 285 ("otter").
1875 A, 369 ("otter").
Luthe, W. 1924 A, 59 ("fischottern").
Miller, G. S. 1912 A, 354.
Osborn, H. F. 1910 B, 192, 193, 531.
Pilgrim, G. E. 1913 A, 291 (Lutridæ).
Pocock, R. I. 1921 A, 803, 830.
Stromer, E. 1902 A.
Trouessart, E. L. 1904 A, 212.
Weber, M. 1904 A, 538.
Weber and Abel 1928 A, 332, 335.
Winge, H. 1924 A, 178, 203, 205 (Lutrini).
Zittel and Schlosser 1911 A, 394.
1923 A, 474.

POTAMOTHERIUM E. Geoffroy. Type *P. valetoni* E. Geoffroy.

Hay, O. P. 1902 A, 768 (Pomatotherium, *errore*).
Depéret, C. 1906 A, 620.
Filhol, H. 1879 A, 59, pls. vii-ix (Lutra).
Gervais, P. 1859 A, 244.
Haug, E. 1911 A, 1706.
Kellogg, R. 1922 A, 86.
Leche, W. 1915 A, 339.
Luthe, W. 1924 A, 128, pl. vii.
Mackie, S. J. 1863 D, 342.
Matthew, W. D. 1904 C, 253.
1924 C, 130.
1928 B, 974, fig. 13.
Osborn, H. F. 1910 B, 192, 289, 301, 531.
Palmer, T. S. 1904 A, 559, 832.
Peterson, O. A. 1910 A, 276.
Pictet, F. J. 1853 A, 220, pl. iv, fig. 10.
Schlosser, M. 1911 A, 82.
Scott, W. B. 1913 A, 551.
Stromer, E. 1902 A, 240.
Trouessart, E. L. 1904 A, 212.
Weber, M. 1904 A, 538.
Winge, H. 1924 A, 178, 204, 243.
Zittel and Schlosser 1911 A, 394.
1923 A, 475, 673.

Potamotherium lacota Matthew.

Matthew, W. D. 1904 C, 254, fig. 6.
Gidley, J. W. 1904 A, 245.
Matthew, W. D. 1909 C, 116.
Matthew and Cook 1909 A, 378.
Merriam, J. C. 1911 B, 250.
O'Harra, C. C. 1920 A, 158.
Zittel and Schlosser 1911 A, 394.
1923 A, 475 (This genus ?).
Miocene (Arikaree); South Dakota.

STHENICTIS Peterson. Type *Stenogale robusta* Cope.

Peterson, O. A. 1910 A, 277 (Brachygale; replaced by *Sthenictis* on introduced slip).
Matthew, W. D. 1924 C, 129, 134.

Sthenictis dolichops Matthew.

Matthew, W. D. 1924 C, 65, 135, fig. 34.
Upper Miocene (Lower Snake Creek); Nebraska.

Sthenictis lycopotamica (Cope).

Hay, O. P. 1902 A, 769 (Lutrictis).
Cope and Matthew 1915 A, pl. cxix C, fig. 5 (Lutra, Sthenictis?).
Matthew, W. D. 1904 C, 254 (Potamotherium).
1909 C, 114 (Potamotherium).
Merriam and Sinclair 1907 A, 195 (Lutrictis).
Thorpe, M. R. 1922 E, 444 (Potamotherium).
Middle Miocene (Mascall); Colorado: Miocene; Nebraska.

Sthenictis robustus (Cope).

Hay, O. P. 1902 A, 767 (Stenogale).
Matthew, W. D. 1904 C, 254 (Potamotherium).
1909 C, 116 (Potamotherium).
1924 C, 135 (Sthenictis).
Peterson, O. A. 1910 A, 276 (Stenogale).
Miocene (Arikaree); Nebraska.

Sthenictis sp. indet.

Matthew, W. D. 1924 C, 65. Lower Pliocene (Upper Snake Creek); Nebraska.

MIONICTIS Matthew. Type *M. incertus* Matthew.

Matthew, W. D. 1924 C, 130, 136.

Mionictis elegans Matthew.

Matthew, W. D. 1924 C, 67, 137.
Upper Miocene (Lower Snake Creek); Nebraska.

Mionictis incertus Matthew.

Matthew, W. D. 1924 C, 65, 136, fig. 36.
Middle Miocene (Lower Snake Creek); Nebraska.

LUTRA Brisson. Type *Mustela lutra* Linnæus.

Hay, O. P. 1902 A, 768.
Abel, O. 1912 F, 185.
Allen, J. A. 1892 A.
1903 A, 178.
Ameghino, F. 1889 A, 1017.
Anderson, R. J. 1901 A, 682.
1902 A, 1119, fig. 9.
1902 B, 368, fig.
1909 A, 745.
Anthony, R. 1912 A ("loutres").

Arldt, T. 1907 B, 255.
Bardeleben, K. 1885 B, 86.
Beddard, F. E. 1902 A, 440.
Birula, A. A. 1910 A, 320.
1913 A, 274.
Boas, J. E. V. 1909 A, 529.
Bonsdorff, E. J. 1871 A, 318.
Brandt and Woldrich 1887 A, 56.
Brauer, A. 1914 A, 282.
Bronn, H. G. 1848 A, 678.
1849 A, 722.
Broom, R. 1905 A, 98.
Camerano, L. 1916 B, pl. vii, fig. 9.
Carus, V. 1875 A, 128.
Cuvier, F. 1807 A, 120 ("loutres").
1825 A, 91, pl. xxix ("loutres").
Cuvier, G. 1805 A.
1825 A, IV, 243, 278, pl. xviii.
Dall and Harris 1892 A, 284.
Depéret, C. 1906 B, 1127.
1909 A, 141.
1912 A, 709.
Doran, A. H. G. 1878 A, 396, pl. lix.
Ehrenberg, K. 1926 A, 57.
Eimer, G. H. T. 1901 A, 259.
Elliot, D. G. 1901 A, 352.
Filhol, H. 1879 A, 58.
Fischer, J. B. 1829 A, 224.
Frassetto, F. 1903 A, 220, 270.
Frech and Geinitz 1903 A, 36.
Frick, C. 1926 A, 6.
Gegenbaur, C. 1864 C, 187.
1865 C, 559.
Geinitz, E. 1903 A.
1904 A.
Gervais, P. 1852 A, 116.
1859 A, 243.
Giebel, C. G. 1855 A, 35, pl. xii.
1878 C, 854 ("otter").
1883 A, pl. xvi.
Gottlieb, H. 1914 A, 210.
Grant, M. 1904 B, 205.
Gray, J. E. 1869 A, 163.
Gregory, W. K. 1920 A, 155, fig. 96.
Haug, E. 1911 A, 1886.
Hensel, R. 1879 A, 549.
Hoernes, R. 1886 A, 693.
Hogben, L. Y. 1919 A, 74.
Howes, G. B. 1893 C, 592.
Hue, E. 1907 A, pls. xxix, lxxv, lxxix, xcv, cviii, cxxii, cxxxii.
Ihering, H. 1910 A, 169.
Kampfen, P. N. 1905 A, 532.
Kellogg, R. 1922 A, 85.
Köstlin, O. 1844 A.
Kükenthal, W. 1891 C, 374, 384.
Leche, W. 1887 A.
1912 A, 73.
1915 A, 339.
Le Damany, P. 1906 B, 164 ("loutre").
Lockwood, S. 1884 A, 387.
Lönnberg, E. 1910 A, 50.
Lucae, J. C. 1872 A, 285, 372.
1875 A, 376, 392, pls. xi-xvii.
Luthe, W. 1924 A, 59, pls. i-iv; text-figs.
Lydekker, R. 1910 E, 352 ("otters").
Mackie, S. J. 1863 D, 341.
Matschie, P. 1896 A, 249.
Matthew, W. D. 1904 C, 256.
1909 C, 118.
1924 C, 130.
1928 B, 974, fig. 13.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1912 A, 354.
1912 B, 113.
1924 C, 129.
Nehring, A. 1880 A.
Osborn, H. F. 1905 I, 106.
1909 D, 80, 85.
1910 B, 621.
1916 B, 542.
Owen, R. 1845 B, 495, 497, pl. cxxviii, figs. 4-6.
1845 E, 127.
1868 A, 889.
Palmer, T. S. 1904 A, 387, 831.
Pander and Alton 1822 A, 9 ("otter").
Paulli, S. 1900 B, 497.
Pictet, F. J. 1853 A, 219, pl. iv, fig. 9.
Pocock, R. I. 1918 B, 308.
1921 A, 830.
Pohl, L. 1909 A, 384, fig. 2.
1911 A, 126.
Retzius, A. 1849 A, 626.
Reynolds, S. H. 1912 A, 10, pl. vi.
Römer, F. 1907 A, 73.
Scharff, R. F. 1895 A, 443, 467.
Schlosser, M. 1903 I, 26, 177, 209, 219.
1924 A, 11.
Schwalbe, G. 1904 A, 208.
Sclater, P. L. 1875 A, 219.
Scott, W. B. 1913 A, 551, 684
1916 A, 117 ("otter").
1917 A, 32, 134 ("otters").
Stromer, E. 1902 A.
1902 B, 557.
Taylor, W. P. 1914 A, 471, seq.
Tims, H. W. M. 1903 A, 140.
Tornier, G. 1889 A, 180.
1891 A, 114, 149.
Trouessart, E. L. 1904 A, 213.
Wallace, A. R. 1876 A, I, 118, 121; II, 199.
Weber, M. 1904 A, 538.
Weber and Abel 1928 A, 335.
Wiegmann, F. R. 1838 B, 267, 271, 284.
Winge, H. 1896 A, 122, 130.
1924 A, 178, 204, 244, 248.
Zdansky, O. 1924 B, 45.
Zittel and Schlosser 1911 A, 394.
1923 A, 475, 680.

Lutra canadensis Schreber.

Hay, O. P. 1902 A, 769.
Bangs, O. 1898 A, 224, fig. (L. hudsonica vaga).
Elliot, D. G. 1901 A, 352, pl. xxxvii.
Fischer, J. B. 1829 A, 225.
Foote, J. S. 1916 A, 110, pl. xii.
Gidley, J. W. 1927 E, 274.
Hay, O. P. 1917 E, 46.
1923 A, 382.
1927 D, 191, 243, 274.
Lockwood, S. 1884 A, 387.
Matthew, W. D. 1902 F, 320.
Miller, G. S. 1912 B, 113.
1924 C, 129.
Miller, L. H. 1912 A, 81.

Osborn, H. F. 1910 B, 459 ("Lutra").
Sellards, E. H. 1916 C, 152, 158.
1916 E, 16, 17.
Seton, E. T. 1909 A, 817, map 44.
Stock, C. 1925 A, 195.
Taylor, W. P. 1914 A, 473, seq., figs. 3, 6, 7, 10, 13.
Recent; greater part of United States and eastern Canada: Pleistocene (Fossil Lake); Oregon: Vero; Florida.

Lutra piscinaria Leidy.

Hay, O. P. 1902 A, 769.
Cope, E. D. 1878 II, 125.
Hay, O. P. 1927 D, 242.
McCornack, E. C. 1920 A, 23 (L. piscinaxia).
Merrill, G. P. 1907 A, 44.
Pleistocene (Early); Idaho.

Lutra? pristina Matthew.

Matthew, W. D. 1904 C, 256, text-figs. 7, 8.
Gidley, J. W. 1904 A, 245.
Matthew, W. D. 1909 C, 116.
1924 C, 65, 131, fig. 29 (Brachypsalis?).
O'Harra, C. C. 1920 A, 158.
Lower Pliocene (Snake Creek); Nebraska, South Dakota?.

Lutra rhoadsii Cope.

Hay, O. P. 1902 A, 769.
1923 A, 312, 314.
Rhoads, S. N. 1903 A, 231.
Schlosser, M. 1899 M, 362 (L. rhoadsi).
1902 H, 142 (L. rhoadsi).
Pleistocene (Early); Pennsylvania.

Lutra sp. indet.

Cooke, C. W. 1926 A, 445 ("otter"). Pleistocene; Florida.
Hay, O. P. 1924 D, 252. Pleistocene; Nebraska.
Matthew, W. D. 1918 A, 228. Pleistocene (Sheridan); Nebraska.

MEGENCEPHALON Osborn, Scott and Speir. Type *M. primævus* Osborn, Scott and Speir.

Hay, O. P. 1902 A. 769.
Palmer, T. S. 1904 A, 407, 832.
Trouessart, E. L. 1904 A, 215.

Megencephalon primævus Osborn, Scott and Speir.

Hay, O. P. 1902 A, 769.
Eocene; Wyoming.

Superfamily FELOIDÆ, new name.

Unless otherwise indicated the authors, as quoted, use for this group the name Æluroidea.

Hay, O. P. 1902 A, 777.
Abel, O. 1912 F, 500.
1913 B, 715, 718.
1913 C, 199.
1914 A, 63, 69.
1919 A, 739.
1920 A, 422.
Brown, A. E. 1904 B, 91.
Gregory, W. K. 1920 A, 239.
Kükenthal, W. 1913 A, 501 (Herpestoidea).
Lockington, W. N. 1884 A, 431.
Matthew, W. D. 1909 D, 330, 351, 352.
1915 K, 445.
Mivart, St. G. 1882 B, 459.
Moodie, R. L. 1922 C, 351.
Osborn, H. F. 1910 B, 531.
Pocock, R. I. 1916 F, 26 ("æluroids").
Rehs, J. 1914 A, 56 (Herpestoidea).
Reynolds, S. H. 1897 A, 369, 467.
Schwarz, E. 1912 B, 3 (Ailuroidea).
Scott, W. B. 1896 D, 54.
Weber, M. 1904 A, 529 (Herpestoidea).
Weber and Abel 1928 A, 317, 318, 342 (Herpestoidea, Æluroidea).
Weber and Burlet 1927 A, xv (Herpestoidea).

HYÆNIDÆ Gray.

Gray, J. E. 1869 A, 211.
Hay, O. P. 1902 A, 776.
Abel, O. 1919 A, 741.
Carus, V. 1875 A, 122 (Hyænida).
Chardin, P. T. 1928 A, 57 ("hyènes").
Cope, E. D. 1885 EE, 606 ("hyænas").
1891 N, 76 ("hyænas").
Doran, A. H. G. 1878 A, 391.
Flower, W. H. 1869 B, 29.
1883 D, 437.
Flower and Lydekker 1891 A, 540.
Gervais, P. 1859 A, 239 ("hyénidés").
Grevé, C. 1891 A.
Hay, O. P. 1921 A, 634.
Hoyer and Babik 1924 A, 451 (Hyæna).
Leche, W. 1921 A, 50.
Lockington, W. N. 1884 A, 431, 432.
Lydekker, R. 1884 A, 273, 274.
Matthew, W. D. 1901 A, 8.
Matthew, W. D. 1909 D, 330.
1928 B, 974, fig. 13.
Mead, C. S. 1906 A, 481.
Mivart, St. G. 1882 A, 137, 143, 205.
1882 B.
Osborn, H. F. 1909 D, 64.
Owen, R. 1866 B, 492, 504, 510 ("hyænas").
Palmer, T. S. 1904 A, 829.
Pictet, F. J. 1853 A, 221 ("hyénidés").
Pocock, R. I. 1916 A, 303.
1916 B, 442.
Pohle, H. 1920 A, 57.
Reynolds, S. H. 1897 A, 502.
1902 A, 1.
Roger, O. 1896 A, 65.
Schwarz, E. 1924 A, 421 ("hyænas").
Stromer, E. 1902 B, 554 ("hyaeniden").
Terra, P. 1911 A, 288, fig. 111.
Thorpe, M. R. 1922 D, 376 ("hyænids").

Trouessart, E. L. 1904 A, 342.
Turner, H. N. 1848 A, 81, 82, 87 (Hyænina).
Vicq-d'Azyr, F. 1792 A, cvi (Hyænini).
Weber, M. 1904 A, 532.
Weber and Abel 1928 A, 318, 323.
Winge, H. 1896 A, 126.
Winge, H. 1924 A, 177, 191, 242.
Woodward, A. S. 1923 C, 22.
Zdansky, O. 1924 B, 93.
Zittel, K. A. 1893 B, 660.
Zittel and Schlosser 1911 A, 396.
1923 A, 477, 482.

CHASMAPORTHETES Hay. Type *C. ossifragus* Hay.

Hay, O. P. 1921 A, 636.

Chasmaporthetes ossifragus Hay.

Hay, O. P. 1921 A, 636, pl. cxxiv, figs. 5, 6.
1922 A, 446 ("hyæna").
1923 A, 9.
1927 D, 129.
Pleistocene (Nebraskan?); Arizona.

HYÆNA Brisson. Type *Hyæna hyæna* Brisson.

Brisson, M. J. 1762, Règn. Anim., 2d ed., 13, 169.
Abel, O. 1922 C, 133, figs. 121, 122.
Blanford, W. T. 1876 A, 285.
Bronn, H. G. 1838 A, 1314.
Busk, G. 1866 A, 59, pl. ii.
Carus and Engelmann 1861 A, 1749.
Cuvier, G. 1825 A, IV, 236, 381-405, pls. xvii, xxviii-xxxii.
Dawkins, W. B. 1865 A, 80, figs. 1-6.
Doran, A. H. G. 1878 A, 391, 406, pl. lviii.
Ehrenberg, K. 1926 A, 57.
Falconer, H. 1868 A, II, 464.
Fischer, J. B. 1829 A, 193.
Flower, W. H. 1869 B, 27, fig. 13.
Gaudry, A. 1867 A, 81, pls. xii-xiv.
1891 C, 116, 142.
Gegenbaur, C. 1865 C, 559.
Gervais, P. 1852 A, 120, explan. pls. xii, xxiv.
1859 A, 239, pls. xii, xxiv.
1861 A, 142 ("hyène").
Lydekker, R. 1884 A, 275, pls. xxxiv-xxxix.
Mivart, St. G. 1882 A, 135.
Owen, R. 1866 B, 492, 504, 510.
1868 A, 330, 885.
Palmer, T. S. 1904 A, 333, 829.
Pictet, F. J. 1853 A, 222, pl. v, figs. 1-6.
Pocock, R. I. 1916 A, 303, figs.
1916 B, 443, fig.
Reynolds, S. H. 1897 A, 543.
1902 A, 1, pls. i-xiv.
Taschenberg, O. 1899 A, 4594.
Terra, P. 1911 A, 277, fig. 102.
Turner, H. N. 1848 A, 83.
Weber, M. 1904 A, 532.
Weber and Abel 1928 A, 323.
Winge, H. 1924 A, 177, 192, 242, 248.
Zdansky, O. 1924 B, 93.
Zittel, K. A. 1893 A, 661.
Zittel and Schlosser 1911 A, 396, fig. 366.
1923 A, 477.

Hyæna sp. indet.

Whitney, J. D. 1867 C, 356-357 (This genus?). Pleistocene; California.

FELIDÆ Gray.

Gray, J. E. 1821 A, 302.
Hay, O. P. 1902 A, 777.
Abel, O. 1912 D, 603 ("feliden").
1912 F, 501.
1913 B, 715.
1914 A, 70 ("feliden").
1919 A, 741.
Ameghino, F. 1889 A, 1012.
1912 B, 175 ("félidés).
Anthony, R. 1912 A.
Arldt, T. 1907 B, 449 ("feliden").
1907 D, 654.
Baird, S. F. 1876 A, ccviii ("cats").
Bateson, W. 1892 A, 105.
Bayer, F. 1897 A, 147.
Beddard, F. E. 1902 A, 390.
Behlin, H. 1907 A ("feliden").
Birula, A. A. 1913 A, 222.
Bluntschli, H. 1912 B, 362 ("feliden").
Bonaparte, C. L. 1832 A, 287 (Felina).
Boulenger, G. A. 1919 A, 41 ("félides").
Bradley, O. C. 1905 B, 469.
Brandt and Woldrich 1887 A, 22 (Felina).
Brown, A. E. 1904 B, 92.
Carus, V. 1875 A, 121 (Felida).
Case, E. C. 1899 B, 181.
Chandler, A. C. 1914 B, 134.
Cleland, J. 1863 B, 297 ("cats").
Cope, E. D. 1885 BB, 79.
1891 N, 76 ("cats").
Corner, E. M. 1896 A, 388.
Cuvier, F. 1825 A, 77 ("chats").
Cuvier, G. 1807 A, 117 ("chats").
1809 B, 136 ("chats").
Depéret, C. 1906 A, 620 ("félidés").
1906 B, 1122 ("félidés").
1908 A, 304, 306.
1909 A, 141 ("félidés").
Doran, A. H. G. 1878 A, 391, 406.
Eaton, G. F. 1922 A, 425.
Eimer, G. H. T. 1901 A, 259 ("katz").
Elliot, D. G. 1901 A, 293.
Filhol, H. 1889 A, 222 ("félidés").
Fraipont, C. 1922 A, 578 ("félidés").
Frassetto, F. 1903 A, 309.
Freund, L. 1911 A, 390 ("feliden").
Gaudry, A. 1901 B, 100 ("félidés").
Geoffroy St. Hilaire, E. F. 1824 H, 255 ("chats").
Gervais, P. 1859 A, 226 ("félidés").

Giebel, C. G. 1883 A ("felinen").
Gill, T. 1881 A, 387 ("felids").
Grant, M. 1904 B, 194, 205.
Gray, J. E. 1825 B, 339.
1867 C, 258.
Gregory, W. K. 1927 A, 601 ("cats").
Hay, O. P. 1923 A, 5, 312.
1927 E, 77 ("cats").
Hensel, R. 1879 A, 551 ("feliden").
Hoernes, R. 1886 A, 696.
Hrdlička, A. 1903 A, 370.
Huene, F. 1927 D, 146 ("feliden").
Huxley, T. H. 1880 C, 4.
Ihering, H. 1909 A, 285 ("katze").
1910 A, 117.
Jaekel, O. 1911 A, 228 (Felidi).
Kampfen, P. N. 1905 A, 501.
Kingsley, J. S. 1925 A, 261.
Köstlin, O. 1844 A ("katze").
Koken, E. 1901 B, 220 ("katze").
Laloy, L. 1907 A, 587 ("félidés").
Leche, W. 1887 A.
1915 A, 316.
Leunis and Ludwig 1883 A, 182.
Lobley, J. L. 1908 A, 194, 200, 204.
Lockington, W. N. 1884 A, 445.
Lönnberg, E. 1926 A, 1, 17.
Loomis, F. B. 1910 C, 293.
Lull, R. S. 1904 C, 3 ("cats").
1917 B, 338, 564.
Lydekker, R. 1896 D, 1, 282.
1904 C, 63.
1910 E, 352 ("cats").
Mackie, S. J. 1863 D, 343.
Martins, C. 1857 A, 68 ("chats").
Matthew, W. D. 1901 A, 8.
1905 D, 41.
1907 A, 179, 199.
1909 D, 330, 352, 411, 462.
1910 G, 155.
1912 B, 184, 185.
1913 B, 291.
1915 A, 187, 223.
1915 K, 445, fig. 17 ("cats").
1924 C, 146.
1924 E, 745.
1928 B, 974 ("cats").
Matthew and Cook 1909 A, 366.
Meckel, J. F. 1825 A ("katzen").
Merriam, J. C. 1906 A, 64.
1917 B, 211.
Miller, G. S. 1912 A, 455.
1912 B, 115.
1924 C, 155.
Mivart, St. G. 1882 B.
Neuville, H. 1915 A, 9 ("félidés").
Osborn, H. F. 1902 A, 87 ("cats").
1909 D, 126.
1910 B, 615.
Owen, R. 1868 A, 880.
Petronievics, B. 1919 A, 417.
Pictet, F. J. 1853 A, 225 ("félidés").
Pilgrim, G. E. 1913 A, 291.
1915 B, 151.
Pocock, R. I. 1914 B, 913.
1916 C, 222.
1916 E, 326.
1916 F, 261.
1917 A, 329.
Pohl, L. 1911 A, 147 ("feliden").
Pompeckj, J. F. 1925 A, 13 ("feliden").
Puccioni, N. 1908 A, 49 ("felini").
Rehs, J. 1914 A, 56.
Schlosser, M. 1897 B, 18 ("katzen").
1902 J, 258.
1903 I, 31 ("feliden").
1906 A, 31 ("feliden").
Schmidt, O. 1886 A, 276 ("cats").
Schwarz, E. 1912 B, 3.
1924 A, 420 ("cats").
Scott, W. B. 1896 D, 54 ("cats").
1913 A, 517, 518, 530.
1917 A, 32, 134, 140 ("cats").
Serres, M. 1860 A, 306 ("panthères").
Seton, E. T. 1909 A, 677.
Steinmann, G. 1907 A, 473.
Taschenberg, O. 1899 A, 4569.
Terra, P. 1911 A, 286.
Tims, H. W. M. 1902 A, 336.
Tornier, G. 1891 A, 159.
Trouessart, E. L. 1904 A, 261.
Vicq-d'Azyr, F. 1792 A, cv (Felini).
Wagner, R. 1843 A ("katzen").
Wallace, A. R. 1876 A, II, 192.
1894 A, 435.
Weber, M. 1904 A, 529.
Weber and Abel 1928 A, 307, 316, 318, 319.
Wiegmann, F. A. 1838 B, 258, 270 ("katzen").
Windle, B. C. A. 1905 A, 1051 ("katze").
Winge, H. 1896 A, 126, 127.
1924 A, 177, 185, 188.
Wortman, J. L. 1901 B, XII, 144, 206.
1920 A, 17.
Woodward, A. S. 1898 D, 336.
Wright, G. F. 1908 A, 34 ("felines").
Zittel and Schlosser 1911 A, 397.
1923 A, 478, 482.

MACHAIRODONTINÆ Gill.

Gill, T. 1872 B, 4, 59, 60.
Hay, O. P. 1902 A, 777.
Abel, O. 1908 D, (209) ("machairodontiden").
1912 F, 497, 498, 573 (Machairodontidæ).
1913 B, 715.
1914 A, 71.
1920 A, 423.
1922 C, 130, fig. 117 ("machairodontinen").
Ameghino, F. 1905 C, 446.
1912 B, 176 (Machairodinæ).
Arldt, T. 1907 D, 663 (Machairodontidæ).
Arldt, T. 1912 A, 702, 748.
Beddard, F. E. 1902 A, 401 (Machairodontidæ).
Boulenger, G. A. 1919 A, 41.
Brandes, G. 1900 A, 106 ("machairodonten").
Brown, B. 1908 A, 187.
Diener, C. 1912 A, 216 ("machairodontiden").
Eaton, G. F. 1928 A, 133 ("sabre-tooth tigers").
Gill, T. 1881 A, 387 ("nimravids").
Hay, O. P. 1923 A, 5.
1927 E, 77 ("saber-tooth tigers").
Huene, F. 1927 D, 113.

Kampfen, P. N. 1905 A.
Lee, Stone, Gale 1915 A, 27 ("saber-tooth tigers").
Loomis, F. B. 1905 B, 840 (Machærodidæ).
Lucas, F. A. 1907 A, 46 ("saber-toothed tigers").
Lydekker, R. 1902 A, 357 ("saber-tooths").
Matthew, W. D. 1901 B, 384 (Machærodontinæ).
1910 C, 309 (Machærodontinæ).
1928 B, 974, fig. 13.
Osborn, H. F. 1905 D, 316 ("saber-tooth tigers").
1909 D, 129 (Machærodontinæ).
1910 B, 621 (Machærodontinæ).
Palacký, J. 1902 B, 151 ("machairoden").
Scharff, R. F. 1911 A, 153 ("saber-toothed tigers").
Schlosser, M. 1902 J, 144, 233, 257 ("machairodontinen").
Scott, W. B. 1913 A, 530, 684.
1916 A, 117, 119 ("saber-toothed tigers").
Steinmann, G. 1907 A, 473 (Machairodinæ).
Trouessart, E. L. 1904 A, 261 (Machærodinæ).
Weber, M. 1904 A, 541 (Nimravidæ).
Weber and Abel 1928 A, 341.
Winge, H. 1896 A, 126 (Machærodontini).
1924 A, 177, 187, 188 (Machærodontini).
Wortman, J. L. 1902 B, 477 ("saber-tooth tigers").
Zittel and Schlosser 1911 A, 397.
1923 A, 478.

DEINICTIS Leidy. Type *D. felina* Leidy.

Hay, O. P. 1902 A, 779.
Abel, O. 1913 B, 716, fig. 20 (Dinictis).
1914 A, 71.
1919 A, 740, figs. 551, 552 (Dinictis).
Ameghino, F. 1885 A, 154 (Dinictis).
1889 A, 1011 (Dinictis).
Beddard, F. E. 1902 A, 401 (Dinictis).
Boulenger, G. A. 1919 A, 41 (Dinictis).
Cope, E. D. 1880 U, 156 (Dinictis).
Eaton, G. F. 1922 A, 428, 435 (Dinictis).
Filhol, H. 1877 A, 38 (Dinictis).
Gaudry, A. 1875 A, 1282 (Dinictis).
Haug, E. 1911 A, 1528 (Dinictis).
Hayden, F. V. 1871 A, 107 (Dinictis).
Heilprin, A. 1887 A, 385 (Dinictis).
Huene, F. 1927 E, 148, fig. 4 (Dinictis).
Lambe, L. M. 1905 D, 369 A (Dinictis).
Leche, W. 1915 A, 320 (Dinictis).
Loomis, F. B. 1905 B, 840, fig. 1 (Dinictis).
Lull, R. S. 1917 B, 569, 571, figs. 184, 185 (Dinictis).
Lydekker, R. 1896 D, 286 (Dinictis).
Matthew, W. D. 1901 B, 365, 369, 371, 384, 386, 387 (Dinictis).
1905 D, 43, fig. 19 (Dinictis).
1907 A, 174 (Dinictis).
1909 C, 110 (Dinictis).
1910 C, 289, 290, 308, 309, figs. 1*a*, 2*a*, 4*a*, 5, 6*a*, 7*a*.
1912 B, 185 (Dinictis).
1915 K, 420 (Dinictis).
1924 E, 748 (Dinictis).
Merriam, J. C. 1905 B, 174.
1906 A, 49, 61.
1919 A, 543 (Dinictis).
O'Harra, C. C. 1910 A, 81, 146 (Dinictis).
Osborn, H. F. 1902 E, 360 (Dinictis).
1905 I, 104 (Dinictis).
1907 G, 138, figs. 95, 97 (Dinictis).
1910 B, 612, fig. 111 (Dinictis).
Petronievics, B. 1919 A, 417 (Dinictis).
Pilgrim, G. E. 1915 B, 147 (Dinictis).
Pompeckj, J. F. 1925 A, 13 (Dinictis).
Schlosser, M. 1898 F, 132, 134 (Dinictis).
Scott, W. B. 1913 A, 254, 538, 540 (Dinictis).
Seeley, H. G. 1886 A, 519 (Dinictis).
Sinclair, W. J. 1924 A, 111, 118 (Dinictis).
Stromer, E. 1902 B, 561 (Dinictis).
Thorpe, M. R. 1920 A, 210, 223 (Dinictis).
Thorpe, M. R. 1923 E, 241 (Dinictis).
Trouessart, E. L. 1904 A, 262 (Dinictis).
Wallace, A. R. 1876 A, i, 134 (Dinyctis).
Weber and Abel 1928 A, 317, 341 (Dinictis).
Winge, H. 1924 A, 177, 188, 242 (Dinictis).
Zittel and Schlosser 1911 A, 398 (Dinictis).
1923 A, 479, 670 (Dinictis).

Deinictis bombifrons Adams.

Hay, O. P. 1902 A, 779.
Cook, H. J. 1912 D, 38 (Dinictis).
Matthew, W. D. 1901 B, 370, 388 (Dinictis).
1909 C, 107 (Dinictis).
1910 C, 310 (Dinictis).
Schlosser, M. 1898 F, 133 (Dinictis).
Thorpe, M. R. 1920 A, 210.
Trouessart, E. L. 1904 A, 262 (Dinictis).
Upper Oligocene (Brule); Socth Dakota, Nebraska ?.

Deinictis cyclops Cope.

Hay, O. P. 1902 A, 780.
Eaton, G. F. 1922 A, 434, 436, 438, 440 (Dinictis).
Lydekker, R. 1896 D, 287 (Dinictis).
Matthew, W. D. 1901 B, 390 (Dinictis).
1909 C, 107 (Dinictis).
1910 C, 310 (Dinictis).
Merriam, J. C. 1906 A, 37, 57.
Merriam and Sinclair 1907 A, 185.
Schlosser, M. 1898 F, 133 (Dinictis).
Trouessart, E. L. 1904 A, 262 (Dinictis).
Oligocene (John Day); Oregon.

Deinictis felina Leidy.

Hay, O. P. 1902 A, 780.
Cook, H. J. 1912 D, 36 (Dinictis).
Eaton, G. F. 1922 A, 436, 438, 440 (Dinictis).
Lambe, L. M. 1908 A, 11, 64, pl. vii, figs. 21-24 (Dinictis).
Lydekker, R. 1896 D, 287 (Dinictis).
Matthew, W. D. 1901 B, 387, 392 (Dinictis).
1909 C, 105 (Dinictis).
1910 C, 310 (Dinictis).
Moodie, R. L. 1922 C, 351 (Dinictis).
O'Harra, C. C. 1920 A, 151 (Dinictis).
Schlosser, M. 1898 F, 132 (Dinictis).
Scott, W. B. 1899 A, 20, figs. 1-7 (Dinictis).
1913 A, 539, 540, figs. 265, 267 (Dinictis).

Sinclair, W. J. 1924 A, 102, 111 (Dinictis).
Stromer, E. 1902 A, 270.
Trouessart, E. L. 1904 A, 262 (Dinictis).
Zittel and Schlosser 1911 A, 398, fig. 567.
1923 A, 479, fig. 607 (Dinictis).
Oligocene (Brule); South Dakota, Nebraska.

Deinictis fortis Adams.

Hay, O. P. 1902 A, 780.
Cook, H. J. 1912 D, 34 (Dinictis).
Eaton, G. F. 1922 A, 440 (Dinictis).
Matthew, W. D. 1901 B, 388 (Dinictis).
1909 C, 103 (Dinictis).
1910 C, 310 (Dinictis).
O'Harra, C. C. 1920 A, 149.
Schlosser, M. 1898 F, 133 (Dinictis).
Thorpe, M. R. 1920 A, 210 (Syn. of Dinictis bombifrons).
Trouessart, E. L. 1904 A, 262 (Dinictis).
Oligocene (Chadron); South Dakota.

Deinictis paucidens Riggs.

Hay, O. P. 1902 A, 780.
Cook, H. J. 1912 D, 36 (Dinictis).
Eaton, G. F. 1922 A, 436, 440 (Dinictis).
Matthew, W. D. 1901 B, 388, 390 (Dinictis).
1909 C, 105 (Dinictis).
1910 C, 310 (Dinictis).
Thorpe, M. R. 1920 A, 211 (Dinictis).
Trouessart, E. L. 1904 A, 262 (Dinictis).
Oligocene (Brule); Wyoming, Nebraska?

Deinictis squalidens Cope.

Hay, O. P. 1902 A, 780.
Barbour and Cook 1914 B, 235, fig. 1.
Cook, H. J. 1912 D, 36 (Dinictis).
Eaton, G. F. 1922 A, 434, 436, 440 (Dinictis).
Matthew, W. D. 1901 B, 357, 390, pl. xxxviii; text-figs. 11-15 (Dinictis); 388 (Daptophilus).
1909 C, 105 (Dinictis).
1910 C, 310, fig. 10 (Dinictis).
O'Harra, C. C. 1910 A, 82, fig. 13 (Dinictis).
1920 A, 83, figs. 28, 32.
Pilgrim, G. E. 1915 B, 153.
Schlosser, M. 1898 F, 133 (Dinictis).
Scott, W. B. 1913 A, 540, fig. 266.
Sinclair, W. J. 1924 A, 102, 112 (Dinictis).
Thorpe, M. R. 1920 A, 211.
Trouessart, E. L. 1904 A, 262 (Dinictis).
Oligocene (Middle); Colorado: (Brule); Nebraska.

Deinictis sp. indet.

Matthew, W. D. 1909 C, 103 (Dinictis). Oligocene (Chadron); South Dakota.

POGONODON Cope. Type *P. platycopis* Cope.

Cope, E. D. 1880 F, 143.
Hay, O. P. 1902 A, 779 (Deinictis, in part).
Beddard, F. E. 1902 A, 401.
Eaton, G. F. 1922 A, 428.
Heilprin, A. 1887 A, 385.
Lockington, W. N. 1884 A, 447.
Lydekker, R. 1896 D, 288.
Matthew, W. D. 1909 C, 110.
1910 C, 290, 310 (Syn. of Nimravus).
Merriam, J. C. 1906 A, 61, 62.
Palmer, T. S. 1904 A, 554, 829.
Scott, W. B. 1913 A, 535, 541.
Seeley, H. G. 1886 A, 519.
Sinclair, W. J. 1924 A, 112.
Thorpe, M. R. 1920 A, 207, 223.
Winge, H. 1924 A, 177, 188, 242.
Zittel and Schlosser 1911 A, 397 (Syn. of Hoplophoneus).
1923 A, 478, 672 (Syn. of Hoplophoneus).

Pogonodon brachyops (Cope).

Hay, O. P. 1902 A, 780 (Deinictis).
Eaton, G. F. 1922 A, 428.
Lydekker, R. 1896 D, 288.
Matthew, W. D. 1901 B, 390 (Dinictis).
1909 C, 107.
1910 C, 310 (Nimravus).
Merriam, J. C. 1906 A, 37, 57.
Merriam and Sinclair 1907 A, 185.
Schlosser, M. 1898 F, 133 (Dinictis).
Thorpe, M. R. 1920 A, 207.
Trouessart, E. L. 1904 A, 262 (Dinictis).
Oligocene (John Day); Oregon.

Pogonodon cismontanus Thorpe.

Thorpe, M. R. 1920 A, 207, 222, fig. 5.
Eaton, G. F. 1922 A, 429, 438, 440.
Sinclair, W. J. 1924 A, 112.
Oligocene (White River); South Dakota.

Pogonodon davisi (Merriam).

Merriam, J. C. 1906 A, 4, 37, 53, pl. vi figs. 1-3.
Eaton, G. F. 1922 A. 429, 438, 440.
Matthew, W. D. 1909 C, 107 (Hoplophoneus).
1910 C, 313 (Hoplophoneus?).
Merriam and Sinclair 1907 A, 185, 191, 192.
Thorpe, M. R. 1920 A, 207.
Upper Oligocene (John Day); Oregon.

Pogonodon platycopis Cope.

Hay, O. P. 1902 A, 780 (Deinictis).
Eaton, G. F. 1922 A, 428, 435, 438, 440.
Lydekker, R. 1896 D, 288.
Matthew, W. D. 1901 B, 390 (Dinictis).
1909 C, 107.
1910 C, 310 (Nimravus).
Merriam, J. C. 1906 A, 4, 37.
Merriam and Sinclair 1907 A, 185, 189.
Pavlow, M. 1915 A, 38 (P. platicopis).
Schlosser, M. 1898 F, 133 (Dinictis).
Seeley, H. G. 1886 A, 519, fig.
Sternberg, C. H. 1909 C, 202, fig. 31.
Thorpe, M. R. 1920 A, 207.
Trouessart, E. L. 1904 A, 262 (Dinictis).
Upper Oligocene (John Day); Oregon.

Pogonodon serrulidens Eaton.

Eaton, G. F. 1922 A, 429, 440, figs. 1-3.
Upper Oligocene (John Day); Oregon.

NIMRAVUS Cope. Type *N. gomphodus* Cope.

Hay, O. P. 1902 A, 781 (Nimravus, Archælurus).
Abel, O. 1913 B, 716, fig. 20.
1919 A, 740, figs. 551, 552.
Beddard, F. E. 1902 A, 401 (Nimravus, Archælurus).
Boulenger, G. A. 1919 A, 41.
Eaton, G. F. 1922 A, 430, 435, 448.
Haug, E. 1911 A, 1705.
Heilprin, A. 1887 A, 385.
Huene, F. 1927 D, 148, fig. 4.
Leche, W. 1915 A, 320.
Lockington, W. N. 1884 A, 447.
Lull, R. S. 1917 B, 569, 571, fig. 184.
Lydekker, R. 1896 D, 287 (Nimravus); 288 (Archælurus).
Matthew, W. D. 1901 B, 386 (Nimravus, Archælurus).
1907 A, 174, 204.
1909 C, 110 (Nimravus); 107 (Archælurus).
1910 C, 289, 290, 308, 310, figs. 2*b*, 4*b*, 7*b*, 7*c* (Nimravus); 310 (Archælurus).
Merriam, J. C. 1906 A, 38 (Nimravus); 38, 63 (Archælurus).
O'Harra, C. C. 1910 A, 83, 130.
Osborn, H. F. 1909 D, 68 (Archælurus); 68, 75 (Nimravus).
1912 G, 249.
Pilgrim, G. E. 1915 B, 147.
Schlosser, M. 1898 F, 134, 135 (Nimravus, Archælurus).
Scott, W. B. 1913 A, 249, 541 (Nimravus); 249, 541, 675 (Archælurus).
Seeley, H. G. 1886 A, 519.
Stromer, E. 1902 B, 561.
Thorpe, M. R. 1920 A, 207, 223.
Weber and Abel 1928 A, 317, 341.
Winge, H. 1924 A, 177, 188, 242 (Nimravus); 177, 187, 242 (Archælurus).
Woodward, A. S. 1898 B, 400.
Zdansky, O. 1924 B, 140.
Zittel and Schlosser 1911 A, 398 (Archælurus a syn.).
1923 A, 479, 672 (Archælurus a syn.).

Nimravus confertus Cope.

Hay, O. P. 1902 A, 781.
Lydekker, R. 1896 D, 287.
Matthew, W. D. 1909 C, 107.
1910 C, 310.
Merriam, J. C. 1906 A, 37, 42, 44.
Merriam and Sinclair 1907 A, 185.
Oligocene (John Day); Oregon.

Nimravus debilis (Cope).

Hay, O. P. 1902 A, 781 (Archælurus).
Cope, E. D. 1884 O, 953, pl. lxxi a, figs. 8-16; pl. lxii, figs. 1-3 (Archælurus).
Eaton, G. F. 1922 A, 434, 438, 440, 448, figs. 7, 11.
Lydekker, R. 1896 D, 288 (Archælurus).
Matthew, W. D. 1909 C, 107.
1910 C, 310.
Merriam, J. C. 1906 A, 37, 44 (Archælurus).
Merriam and Sinclair 1907 A, 185, 189 (Archælurus).
Seeley, H. G. 1886 A, 518 (Archælurus).
Sternberg, C. H. 1909 C, 189 (Archælurus).
Oligocene (John Day); Oregon.

Nimravus debilis Merriami, new name.

Merriam, J. C. 1906 A, 4, 39-52, pls. iv, v; text-figs. 15-18 (Archælurus debilis major).
Eaton, G. F. 1922 A, 438, 448 (Archælurus d. major).
Merriam and Sinclair 1907 A, 185, 188, 189 (Archælurus debilis major).
Oligocene (John Day); Oregon.

Nimravus gomphodus Cope.

Hay, O. P. 1902 A, 781.
Barbour and Cook 1914 B, 236, fig. 2.
Beddard, F. E. 1902 A, 401.
Condon, T. 1902 A, 122, pl. xx.
1910 A, 102, pl. xx ("Felis").
Cope, E. D. 1891 N, 76, fig. 48.
Eaton, G. F. 1922 A, 428, 434, 435, 438, 440.
Lydekker, R. 1896 D, 287.
Matthew, W. D. 1909 C, 107.
1910 C, 310, fig. 11.
Merriam, J. C. 1906 A, 4, 37, 40, 42, 44.
Merriam and Sinclair 1907 A, 185, 188, 189.
Scott, W. B. 1913 A, 542, fig. 268.
Seeley, H. G. 1886 A, 518, fig.
Woodward, A. S. 1898 B, 400, fig. 224.
Oligocene (John Day); Oregon.

Nimravus major (Lucas).

Hay, O. P. 1902 A, 780 (Deinictis).
Matthew, W. D. 1910 C, 311.
Merrill, G. P. 1907 A, 34 (Dinictis).
Trouessart, E. L. 1904 A, 262 (Dinictis).
Oligocene (White River); Nebraska.

Nimravus sectator Matthew.

Matthew, W. D. 1907 A, 171, 204, figs. 17, 18.
1909 C, 112.
1910 C, 310.
O'Harra, C. C. 1920 A, 155.
Lower Miocene (Harrison); South Dakota.

Nimravus sp. indet.

Eaton, G. F. 1922 A, 452, fig. 12. Upper Oligocene (John Day); Oregon.

HOPLOPHONEUS Cope. Type *Machærodus oreodontis* Cope.

Hay, O. P. 1902 A, 778.
Abel, O. 1913 B, 716, fig. 20.
1914 A, 71.
1919 A, 740, fig. 553.
Ameghino, F. 1905 C, 351, 443.
Beddard, F. E. 1902 A, 402.
Boule and Thevenin 1920 A, 240.
Cope, E. D. 1880 U, 156.

Dall and Harris 1892 A, 289.
Eaton, G. F. 1922 A, 436.
Haug, E. 1911 A, 1528.
Hayden, F. V. 1871 A, 107 (Drepanodon).
Heilprin, A. 1887 A, 384 (Drepanodon); 385 (Hoplophoneus).
Hoernes, R. 1886 A, 697.
Huene, F. 1927 D, 148, fig. 4.
Jepsen, G. L. 1926 A, 1, 4.
Leche, W. 1915 A, 320.
Lockington, W. N. 1884 A, 447.
Loomis, F. B. 1905 B, 840, fig. 1.
Lull, R. S. 1917 B, 569, 570, figs. 184, 186.
Lydekker, R. 1896 D, 288.
Matthew, W. D. 1901 B, 369, 370, 384, 386, 392, 394.
1905 D, 43.
1907 A, 174.
1909 C, 110.
1910 C, 289, 290, 308, 312, figs. *1b*, *3a*, *4a*, 5^{3}, *6b*, *8a*.
1912 B, 185.
1915 K, 420.
1924 E, 748.
Merriam, J. C. 1905 B, 173.
1906 A, 46, 61.
1919 A, 543.
Moodie, R. L. 1922 C, 353 (This genus?).
O'Harra, C. C. 1910 A, 81, 148.
Osborn, H. F. 1902 E, 360.
1905 I, 104.
1910 B, 197, 222, 230, 532.
Palmer, T. S. 1904 A, 332, 827.
Pilgrim, G. E. 1915 B, 151.
Schlosser, M. 1898 F, 132, 134, 135.
Scott, W. B. 1913 A, 682, fig. 133.
Seeley, H. G. 1886 A, 519 (Hoplophoneus); 519 (Drepanodon).
Sinclair, W. J. 1921 B, 96.
1924 A, 112, 118.
Sinclair and Jepsen 1927 A, 393.
Thevenin, A. 1907 A, 216 (Haplophoneus).
Thorpe, M. R. 1920 A, 207, 208.
Trouessart, E. L. 1904 A, 262.
Wallace, A. R. 1876 A, i, 134.
Winge, H. 1924 A, 177, 188, 242.
Wood, H. E. 1927 A, 297.
Zittel and Schlosser 1911 A, 397.
1923 A, 478, 670, 672.

Hoplophoneus cerebralis Cope.

Hay, O. P. 1902 A, 778.
Matthew, W. D. 1909 C, 107.
Merriam, J. C. 1906 A, 37, 62.
Merriam and Sinclair 1907 A, 185.
Schlosser, M. 1898 F, 133.
Upper Oligocene (John Day); Oregon.

Hoplophoneus insolens Adams.

Hay, O. P. 1902 A, 778.
Cook, H. J. 1912 D, 38.
Jepsen, G. L. 1926 A, 2.
Matthew, W. D. 1909 C, 107.
1910 C, 313.
O'Harra, C. C. 1920 A, 153.
Schlosser, M. 1898 F, 133.
Sinclair, W. J. 1921 B, 98.
1924 A, 101, 102.
Upper Oligocene (Brule); Nebraska.

Hoplophoneus latidens Thorpe.

Thorpe, M. R. 1920 A, 214, figs. 2, 3.
Sinclair, W. J. 1924 A, 112, 116, 118.
Oligocene (White River); Colorado.

Hoplophoneus marshi Thorpe.

Thorpe, M. R. 1920 A, 211, fig. 1.
O'Harra, C. C. 1920 A, 151.
Sinclair, W. J. 1924 A, 118.
Oligocene (White River); Nebraska.

Hoplophoneus mentalis Sinclair.

Sinclair, W. J. 1921 B, 97, fig. 1.
Jepsen, G. L. 1926 A, 4.
Wood, H. E. 1927 A, 296, figs. 1-6.
Oligocene (Chadron); South Dakota.

Hoplophoneus molossus Thorpe.

Thorpe, M. R. 1920 A, 220, fig. 4.
O'Harra, C. C. 1920 A, 151.
Sinclair, W. J. 1924 A, 112, 116, 118.
Oligocene (White River); Nebraska.

Hoplophoneus occidentalis (Leidy).

Hay, O. P. 1902 A, 778.
Cook, H. J. 1912 D, 36.
Jepsen, G. L. 1926 A, 1.
Matthew, W. D. 1901 B, 369, 394, fig. 16.
1909 C, 105.
1910 C, 313.
Osborn, H. F. 1904 F, 48.
Schlosser, M. 1898 F, 133.
Middle Oligocene (Brule); Nebraska.

Hoplophoneus oharrai Jepsen.

Jepsen, G. L. 1926 A, 1, pl. i; text-fig. 1.
Sinclair and Jepsen 1927 A, 397.
Wood, H. E. 1927 A, 296, 299.
Oligocene (Chadron); South Dakota.

Hoplophoneus oreodontis Cope.

Hay, O. P. 1902 A, 779.
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1901 B, 357.
1909 C, 105.
1910 C, 313.
Schlosser, M. 1898 F, 133.
Sinclair, W. J. 1924 A, 118.
Thorpe, M. R. 1920 A, 213.
Wood, H. E. 1927 A, 297, 300.
Middle Oligocene (Brule); Nebraska: (Cedar Creek); Colorado.

Hoplophoneus primævus (Leidy).

Hay, O. P. 1902 A, 779.
Barbour and Cook 1914 B, 235, fig. 1.
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1901 B, 394.
1909 C, 105.
1910 C, 313, fig. 13.
Merrill, G. P. 1907 A, 44 (Machairodus).
O'Harra, C. C. 1910 A, 83, pl. xxvi, fig. 1.
1920 A, 84, 151, pls. xi, xxviii; text-figs. 29-31.
Osborn, H. F. 1904 F, 26.
1910 B, 197, fig. 87.
Schlosser, M. 1898 F, 132.
Scott, W. B. 1913 A, 536, fig. 264.
Sinclair, W. J. 1924 A, 102, 116, 118, pl. i, fig. 2; text-fig. 5.
Thorpe, M. R. 1920 A, 208, seq.
Wanless, H. R. 1923 A, 220, pl. iii, fig. 2.
Middle Oligocene (Brule); South Dakota, Nebraska?.

Hoplophoneus robustus Adams.

Hay, O. P. 1902 A, 779.
Jepsen, G. L. 1926 A, 2.
Matthew, W. D. 1901 B, 392, 393.
1910 C, 313.
Schlosser, M. 1898 F, 133.
Sinclair, W. J. 1921 B, 98.
1924 A, 102, 113, 116, 118, fig. 6 (This species?).
Thorpe, M. R. 1920 A, 209, 214.
Oligocene (White River); South Dakota, Nebraska.

Hoplophoneus strigidens Cope.

Hay, O. P. 1902 A, 779.
Merriam, J. C. 1906 A, 37, 62 (This species?).
Merriam and Sinclair 1907 A, 185.
Upper Oligocene (John Day); Oregon.

Hoplophoneus sp. indet.

Matthew, W. D. 1909 C, 105. Middle Oligocene; South Dakota, Nebraska, etc.
Wanless, H. R. 1923 A, 220. Oligocene (White River); Nebraska.

DINÆLURUS Eaton. Type *D. crassus* Eaton.

Eaton, G. F. 1922 A, 437.

Dinælurus crassus Eaton.

Eaton, G. F. 1922 A, 437, figs. 4-6.
Upper Oligocene (John Day); Oregon.

EUSMILUS Gervais. Type *E. bidentatus* (Filhol).

Hay, O. P. 1902 A, 778.
Boule and Thevenin 1920 A, 240.
Depéret, C. 1908 A, 169.
1912 A, 708.
Huene, F. 1927 D, 148.
Matthew, W. D. 1901 B, 370.
1909 C, 110.
1910 C, 289, 313.
Merriam, J. C. 1906 A, 61.
O'Harra, C. C. 1910 A, 83, 128.
Osborn, H. F. 1910 B, 227, 532.
Schlosser, M. 1898 F, 134, 135.
1899 F, 167.
Scott, W. B. 1913 A, 254, 538.
Sinclair and Jepsen 1927 A, 391.
Trouessart, E. L. 1904 A, 263.
Winge, H. 1924 A, 177, 188, 242.
Woodward, A. S. 1898 D, 331.
Zittel and Schlosser 1911 A, 397.
1923 A, 478.

Eusmilus dakotensis Hatcher.

Hay, O. P. 1902 A, 778.
Cook, H. J. 1912 D, 38.
Jepsen, G. L. 1926 A, 1.
Matthew, W. D. 1909 C, 107.
1910 C, 314.
O'Harra, C. C. 1920 A, 87, 153.
Schlosser, M. 1899 F, 167.
Scott, W. B. 1913 A, 538.
Sinclair, W. J. 1921 B, 96 (Hoplophoneus).
Sinclair and Jepsen 1927 A, 391.
Oligocene (Upper Brule); Nebraska.

Eusmilus sicarius Sinclair and Jepsen.

Sinclair and Jepsen 1927 A, 491, figs. 1-8.
Oligocene (Oreodon beds); South Dakota.

Eusmilus whitfordi Barbour and Cook.

Barbour and Cook 1914 B, 326, pl. i.
1917 A, 172.
Sinclair and Jepsen 1927 A, 405 (Not Eusmilus).
Pliocene (Devil's Gulch); Nebraska.

ISCHYROSMILUS Merriam. Type *Machairodus ischyrus* Merriam.

Merriam, J. C. 1918 A, 524 (Machærodus).
1915 F, 262.
1917 A, (No description).
1919 A, 543.
Zittel and Schlosser 1923 A, 479, 680, 681 (Syn. of Smilodon).

Ischyrosmilus? idahoënsis Merriam.

Merriam, J. C. 1918 A, 524, fig. 1.
Hay, O. P. 1927 D, 75, 267, 268.
Merriam, J. C. 1917 A, 432, 433 (I. "n. sp.").
Pleistocene (Idaho); Idaho.

Ischyrosmilus ischyrus (Merriam).

Merriam, J. C. 1905 B, 171, fig. 1 (Machærodus).
Bovard, J. F. 1907 A, 156, 163 (Machærodus?).
Brown, B. 1908 A, 191 (Dinobastis).
Merriam, J. C. 1917 A, 425.
1918 A, 524, 526.
1919 A, 545.
Osborn, H. F. 1918 A, 31 (Machærodus).
Pliocene (Tulare?); California.

Ischyrosmilus osborni Merriam.

Merriam, J. C. 1919 A, 525, 527, 545, fig. 155.
1917 A, 430 (No description).
Lower Pliocene (Ricardo); California.

MACHAIRODUS Kaup. Type *M. neogæus* Lund.

Hay, O. P. 1902 A, 777.
Abel, O. 1908 D, (209).
1913 B, 716, fig. 20.
1919 A, 740, fig. 553.
Ameghino, F. 1889 A, 1017 (Machærodus).
1912 B, 170, 176.
Arldt, T. 1907 D, 663.
Barbour and Cook 1914 B, 236.
Beddard, F. E. 1902 A, 402 (Machærodus).
Bose, P. N. 1880 A, 121 (Machærodus).
Boule, M. 1902 A, 551.
1902 B, 912.
1906 A.
Boule and Thevenin 1920 A, 240.
Boulenger, G. A. 1919 A, 41 (Machærodus).
Brandes, G. 1900 A, 103 (Machærodus).
Brandt and Woldrich 1887 A, 22 (Machærodus).
Bronn, H. G. 1848 A, 690.
1849 A, 720.
Cook, H. J. 1922 B, 7 (Machærodus).
Depéret, C. 1906 B, 1123.
1907 B.
1909 A, 141.
Frech and Geinitz 1903 A, 39 (Machærodus).
Gaudry, A. 1867 A, 105, pl. xvi (Machærodus).
1891 C, 87, fig. 26.
1896 A, 99.
Geinitz, E. 1903 A, (Machærodus).
1904 A (Machærodus).
Gervais, P. 1852 A, 126.
1859 A, 230.
Giebel, C. G. 1883 A, pl. li (Machærodus).
Haug, E. 1911 A, 1706 (Machærodus).
Heilprin, A. 1887 A, 384.
Hoernes, R. 1886 A, 696 (Machærodus).
Huene, F. 1927 D, 148, fig. 4.
Hull, E. 1914 A, 613.
Huxley, T. H. 1868 C, 318.
1870 F, 542.
Kampfen, P. N. 1905 A, 502 (Machærodus).
Knipe, H. R. 1912 A, 156, fig.
Laloy, L. 1907 A, 588.
Leche, W. 1915 A, 320.
1921 A, 69 (Machærodus).
Lobley, J. L. 1908 A, 211.
Lockington, W. N. 1884 A, 447 (Machærodus).
Lull, R. S. 1917 B, 569, 573, fig. 184 (Machærodus).
Lydekker, R. 1884 A, 332, pl. xliv.
1896 D, 283 (Machærodus).
Mackie, S. J. 1863 D, 345.
Matthew, W. D. 1901 B, 386.
1907 A, 174 (Machærodus).
1909 C, 118 (Machærodus).
1910 C, 290, figs. 3b, 4b (Machærodus).
1918 A, 229 (Machærodus).
Merriam, J. C. 1906 A, 61 (Machærodus).
1918 A, 524 (Machærodus).
1919 A, 543 (Machærodus).
Meunier, S. 1903 A, 776.
Much, —— 1900 A, 103.
Osborn, H. F. 1910 B, 621 (Machærodus).
1912 G, 251 (Machærodus).
1916 B, 541 (Machærodus).
Owen, R. 1845 B, 490, pl. cxxvii, figs. 5, 6.
1845 E, 127.
1868 A, 890.
Palmer, T. S. 1904 A, 391, 828.
Pavlow, M. 1915 A, 38.
Pilgrim, G. E. 1913 A, 391 (Machærodus).
1915 B, 138 (Machærodus).
Schlosser, M. 1898 F, 134, 135.
1902 H, 142.
1902 J, 144.
1903 I, 37, 209, 219.
1924 A, 20.
Schmidt, O. 1886 A, 276.
Scott, W. B. 1913 A, 534, 535, 536.
Seeley, H. G. 1878 A, 226 (Machærodus).
Stremme, H. 1911 A, 89.
Stromer, E. 1906 A, 217 (Machærodus).
Thorpe, M. R. 1922 E, 449 (Machærodus).
Trouessart, E. L. 1904 A, 263.
Wallace, A. R. 1876 A, I, 497.
Weber, M. 1904 A, 540, 541.
Weber and Abel 1928 A, xviii, xix, 341.
Weber and Burlet 1927 A, 237, fig. 176.
Weithofer, A. 1888 A, 236.
Wilckens, O. 1911 A, 708.
Winge, H. 1924 A, 177, 188, 242 (Machærodus).
Woodward, A. S. 1898 B, 400, fig. 225 (Machærodus).
1910 B, 466 (Machærodus).
1923 C, 22 (Machærodus).
Zdansky, O. 1924 B, 109.
Zittel and Schlosser 1911 A, 397.
1923 A, 459, 478, 673, 679.

Machairodus catocopis Cope.

Hay, O. P. 1902 A, 778 (Hoplophoneus).
Cook, H. J. 1922 B, 7, 22-26, 9 figs. [Machærodus (Heterofelis) coloradensis].
Matson and Clapp 1909 A, 137.
Matthew, W. D. 1907 A, 204 (Machærodus).
1909 C, 116 (Machærodus).
1924 C, 65 (Heterofelis); 147, fig. 39 [Machærodus (Heterofelis)]; 148 H. coloradensis a syn.
Merriam, J. C. 1905 B, 173 (Machærodus).
1917 A, 438 ("Machærodus" catocopis).
Upper Miocene or Lower Pliocene (Republican River); Kansas: Lower Pliocene (Snake Creek); Nebraska, Colorado.

Machairodus crassidens Cragin.

Hay, O. P. 1902 A, 778 (Hoplophoneus).
Matthew, W. D. 1909 C, 116 (Machærodus?).
Merriam, J. C. 1917 A, 438 (Machærodus).
Upper Miocene or Lower Pliocene (Republican River); Kansas.

Machairodus niobrarensis Thorpe.

Thorpe, M. R. 1922 E, 448, fig. 13 (Machærodus).
Upper Miocene (Valentine); Nebraska.

Machairodus sp. indet.

Gidley, J. W. 1903 C, 634 (Machærodus). Upper Miocene; Texas.
Matthew, W. D. 1923 A, 12 (Machærodus). Lower Pliocene (Upper Snake Creek); Nebraska.
Thorpe, M. R. 1922 E, 450 (Machærodus?). Tertiary; Nebraska.

DINOBASTIS Cope. Type *D. serus* Cope.

Hay, O. P. 1902 A, 781.
Brown, B. 1908 A, 191.
Hay, O. P. 1923 A, 14.
Matthew, W. D. 1910 C, 316.
1918 A, 229.
Palmer, T. S. 1904 A, 232, 827.
Schlosser, M. 1898 F, 135.
Zittel and Schlosser 1911 A, 394 (Syn. of Smilodon).
1923 A, 479 (Syn. of Smilodon).

Dinobastis serus Cope.

Hay, O. P. 1902 A, 781.
Bovard, J. F. 1907 A, 163.
Dopp, K. E. 1904 A, 22 ("sabre-toothed cat").
Hay, O. P. 1919 C, 107, pl. xxviii, fig. 4.
1920 B, 142, pl. v, figs. 1, 2.
Merriam, J. C. 1905 B, 173.
Sellards, E. H. 1919 A, 74 ("sabre-tooth tiger").
Trouessart, E. L. 1904 A, 264.
Pleistocene; Oklahoma, Texas.

SMILODONTOPSIS Brown. Type *S. troglodytes* Brown.

Brown, B. 1908 A, 188.
Diener, C. 1912 A, 217.
Freudenberg, W. 1914 A, 501.
Hay, O. P. 1923 A, 14.
Matthew, W. D. 1910 C, 316.
1915 K, 402.
1918 A, 229.
Osborn, H. F. 1909 D, 87, 90.
1910 B, 487, 488.
Zittel and Schlosser 1911 A, 398 (Syn. of Smilodon).
1923 A, 479, 681 (Syn. of Smilodon).

Smilodontopsis conardi B. Brown.

Brown, B. 1908 A, 190, pl. xix.
Hay, O. P. 1914 A, 32.
1919 C, 107.
1924 D, 252.
Simpson, G. G. 1928 H, 11.
Pleistocene (Middle); Arkansas.

Smilodontopsis gracilis (Cope).

Hay, O. P. 1902 A, 778 (Machairodus).
Baker, F. C. 1920 A, 208, 215, 398 (Machærodus).
Bovard, J. F. 1907 A, 162, 163, 168 (Machærodus).
Brown, B. 1908 A, 191.
Haug, E. 1911 A, 1886 (Smilodon).
Hay, O. P. 1919 C, 107 (Smilodon).
1920 B, 108 (Machairodus).
1923 A, 314.
Lydekker, R. 1884 A, 333 (Machærodus).
Mercer, H. C. 1897 A, 444 ("saber-tooth tiger").
Merriam, J. C. 1905 B, 173 (Machærodus).
Rhoads, S. N. 1903 A, 231 (Machairodus).
Schlosser, M. 1899 M, 361 (Smilodon).
Trouessart, E. L. 1904 A, 264 (Smilodon).
Pleistocene (Early); Pennsylvania.

Smilodontopsis mercerii (Cope).

Hay, O. P. 1902 A, 778 (Machairodus).
Baker, F. C. 1920 A, 208, 215, 398 (Machærodus).
Brown, B. 1908 A, 191.
Frech and Geinitz 1903 A, 36 (Felis).
Haug, E. 1911 A, 1886 (Smilodon merceri).
Hay, O. P. 1920 B, 108 (Smilodon).
1923 A, 312, 314.
Matthew, W. D. 1918 A, 229 (Machærodus merceri).
Rhoads, S. N. 1903 A, 232 (Machairodus).
Schlosser, M. 1899 M, 360, 362 (Uncia merceri).
Trouessart, E. L. 1904 A, 264 (Smilodon).
Pleistocene (Early); Pennsylvania.

Smilodontopsis mooreheadi Hay.

Hay, O. P. 1920 B, 107, pl. iv, figs. 21, 22.
1923 A, 348.
Pleistocene (Middle); Maryland.

Smilodontopsis troglodytes B. Brown.

Brown, B. 1908 A, 188, pl. xix.
Haug, E. 1911 A, 1887.
Hay, O. P. 1914 A, 32.
1924 D, 252.
Pleistocene (Middle); Arkansas.

SMILODON Lund. Type *S. populator* Lund.

Hay, O. P. 1902 A, 780.
Abel, O. 1912 D, 603.
1912 F, 498, 701, fig. 382.
1913 B, 716, fig. 20.
1914 A, 71.
1919 A, 740, fig. 553.
1920 A, 423, fig. 639.
1922 C, 131, figs. 118, 119.
Ameghino, F. 1885 A, 203.
1889 A, 1025.
1905 A, 2, 60.
1905 B, 198.
1905 C, 443, fig. 90.
1906 B, 4.
1908 A, 39, fig. 3.
1912 B, 170, 176.
Barbour, E. H. 1916 A, 349.
Boule, M. 1902 A, 572.
1923 A, 408, 426.
Boule and Thevenin 1920 A, 235, pl. xxvi.
Burmeister, H. 1866 B, 123 (Machærodus).
1868 C, 181-196, pl.
1886 C, expl. pl. ix (Machærodus neogæus).
Cope, E. D. 1891 N, 77, fig. 49.
1895 G, 596.
Dall and Harris 1892 A, 284.
Diener, C. 1912 A, 224.
Fraipont, C. 1922 A, 578.
Gaudry, A. 1875 D, 1282 (Machærodus).
Giebel, C. G. 1855 A, 21.
Grant, M. 1904 B, 195.
Hay, O. P. 1916 E, 54 ("saber-tooth tiger").
1923 A, 14 (Trucifelis).
1925 D, 245.
1926 E, 388, 390.
Kampfen, P. N. 1905 A, 502.
Leche, W. 1915 A, 320.
Lockington, W. N. 1884 A, 447.
Loomis, F. B. 1905 B, 840, fig. 1.
1926 A, 153 ("saber-tooth").
Lucas, F. A. 1907 A, 46.
Lull, R. S. 1917 B, 567, pl. xx; text-figs. 183, 187.
Lydekker, R. 1884 A, 333 (Machærodus).
MacCurdy, G. G. 1917 A, 261.
Marinelli, W. 1924 A, 32.
Matthew, W. D. 1910 C, 290, 307, 315, figs. 1*d*, 3*c*, 4*c*, 5, 6*d*, 8*d*, 9 (Smilodon); 316, fig. 3*d* (Trucifelis).
1910 G, 155, 159.
1915 A, 198.
1915 K, 447, fig. 25.
1924 E, 748.
Merriam, J. C. 1906 D, 249.
1919 A, 543.
Merriam, Stock and Moody 1916 A, 104.
Moodie, R. L. 1922 C, 353, 357, fig. 16.
1923 B, 566, pls. xliii, liv, fig. 25.
1926 A, 68, 86, text-figs. 7, 9.
1928 C, 1.
Osborn, H. F. 1905 I, 104.
1910 B, 467, 631.
1925 D, 532.
Owen, R. 1845 E, 128 (Smilidon).
Palacký, J. 1902 B, 151.
Palmer, T. S. 1904 A, 635, 829 (Smilodon); 696, 829 (Trucifelis).
Schlosser, M. 1898 F, 134, 135.
Scott, W. B. 1913 A, 204, 531, 532, 533, 534, 536, 622, fig. 262.
Shufeldt, R. W. 1889 D, 27, figs.
Sinclair and Jepsen 1927 A, 393.
Stromer, E. 1902 B, 555.
Thorpe, M. R. 1922 B, 281.
Trouessart, E. L. 1904 A, 264 (Subg. of Machairodus).
Warren, J. C. 1853 B, 256 (Felis, Smylodon).
Weber and Abel 1928 A, 341, fig. 207.
Wood, H. E. 1927 A, 300.
Zittel and Schlosser 1911 A, 398.
1923 A, 479, 680.

Smilodon californicus Bovard.

Bovard, J. F. 1907 A, 157, pl. xiii, figs. 1-4.
Abel, O. 1912 F, 497, fig. 381 (S. californicum).
1919 A, 746, fig. 555.
1926 B, 235, 458, fig. 144.
Archer, W. J. 1918 B, 13 ("saber-tooth").
Bryan, W. A. 1927 A, 78, figs. ("saber-tooth tiger").
Collins, H. O. 1910 A, 6 ("saber-tooth tiger").
Denton, W. 1875 A, 186 ("Machairodus").
Eastman, C. R. 1914 B, 690 ("saber-tooth cat").
Freudenberg, W. 1914 A, 501.
1921 A, 138.
Gilbert, J. Z. 1910 B, 28, figs. 5-7 ("saber-tooth").
H. H. 1927 A, 166, 2 figs. ("saber-tooth").
Hay, O. P. 1926 F, 426 ("saber-tooths").
1927 D, 312.
Huene, F. 1927 D, 144, figs. 1-3, 5.
Lotichius, A. 1911 A, 268, pl.
Lull, R. S. 1921 B, 162.
Lytle, J. W. 1926 A, 23, fig. ("saber-tooth tiger").
Matthew, W. D. 1910 C, 315, fig. 15.
1912 B, 183 ("sabre-tooth tiger").
1913 D, 296, pl.
1914 E, 57, plate ("sabre-tooth tiger").
1914 I, 46.
1916 F, 469, 2 figs. ("sabre-tooth").
Merriam, J. C. 1908 D, 468, 2 figs.
1909 A, 293.
1909 C, 11, fig.
1911 F, 210, fig. 1 ("saber-tooth cats").
1915 G, 101 ("sabre-tooth").
1918 A, 524.
Merriam and Stock 1925 A, 10.
Miller, L. H. 1912 A, 78.
Moodie, R. L. 1917 B, 385, fig. 9 ("Smilodon").
1918 C, 278, fig. 21 ("Smilodon").
1918 D, 507, fig. 33 ("saber-tooth").
1927 A, 93, figs. 3-8, 10, 11.
Osborn, H. F. 1910 B, 473.
1925 D, 528, 531, 533, figs.
Ridgway, J. L. 1926 A, 22, fig. ("saber-tooth tiger").
Schuchert and Levene 1927 A, 341, fig.
Scott, W. B. 1913 A, 195, 531, figs. 113, 261.
Stock, C. 1925 A, 30, 35.
Stoner, R. W. 1913 A, 391 ("sabre-tooth tiger").

Swarth, H. S. 1915 A, 19, figs. 8, 9.
Thorpe, M. R. 1922 B, 281.
Wyman, L. E. 1922 A, 18, figs. 11, 13.
1927 A, 84, figs. ("saber-tooths").
Young and Cooper 1927 A, 5.
Pleistocene (Rancho La Brea); California.

Smilodon fatalis (Leidy).

Hay, O. P. 1902 A, 780.
Bovard, J. F. 1907 A, 163.
Brown, B. 1908 A, 191 (Trucifelis).
Deussen, A. 1924 A, 20 (Smilodon); 108 (Trucifelis).
Hay, O. P. 1919 C, 106 (Trucifelis).
1924 D, 241, 242 (Trucifelis).
Hayes and Kennedy 1903 A, 20.
Leidy, J. 1869 A, 366, pl. xxviii, figs. 10, 11 (Trucifelis).
Lockington, W. N. 1884 A, 447.
Lull, R. S. 1921 B, 160, fig. 1 (This species?).
Matthew, W. D. 1918 A, 229.
Merriam, J. C. 1905 B, 173.
Shuler, E. W. 1923 A, 333 ("saber-tooth tiger").
Pleistocene (Early); Texas.

Smilodon floridanus (Leidy).

Hay, O. P. 1902 A, 781.
Abel, O. 1926 B, 8 (Machairodus).
Bovard, J. F. 1907 A, 158, 160, 162.
Chamberlin, R. T. 1916 A, 35 ("saber-tooth tiger").
Hay, O. P. 1919 C, 106-108, pl. xxvi, figs. 1-3 (Trucifelis).
1923 A, 497 (Trucifelis); 38, 224 (Machairodus).
1924 B, 259 ("saber-tooth").
1926 G, 129 ("saber-tooth").
1927 C, 281.
1927 D, 275.
1928 B, 238 ("sabre-tooth tiger").
1928 C, 426.
Lydekker, R. 1896 D, 284.
Matson and Clapp 1909 A, 136, 137 (Machairodus).
Matthew, W. D. 1918 A, 229.
Sellards, E. H. 1916 B, 103 (Machairodus).
1916 C, 134, 152, 158, pl. xxviii, fig. 1; pl. xxix, fig. 8 (Trucifelis).
1916 D, 617 (Smilodon sp.).
1916 E, 16 ("Smilodon sp.").
1916 F, 9 (Smilodon sp.).
Simpson, G. G. 1928 H, 2, 10, fig. 7 (This species?).
Spencer, J. W. 1895 A, 138.
Wieland, G. R. 1918 A, 93 ("saber-tooth").
Pleistocene (Early); Florida.

Smilodon nebrascensis Matthew.

Matthew, W. D. 1918 A, 226, 228.
Hay, O. P. 1924 D, 305.
1928 C, 423, 426.
Pleistocene (Sheridan); Nebraska.

Smilodon sp. indet.

Frick, C. 1921 A, 341, fig. 46 (This genus?).
Pliocene (Eden); California.
Gidley, J. W. 1925 A, x ("saber-tooth").
Pleistocene; Florida.
Hay, O. P. 1917 B, 22 (This genus?). Pleistocene; Texas.
1924 D, 384. Pleistocene; Kansas, Texas.
1927 A, 5 (This genus?).
1927 D, 223, 274. Pleistocene; California, Florida.
Loomis, F. B. 1924 C, 506. Pleistocene; Florida.
Stock, C. 1925 A, 21 (This genus?). Lower Pliocene (Eden); California: Pleistocene; California.
Todd, J. E. 1918 A, 45 ("large cat"). This genus?). Pleistocene; Kansas.

METAILURUS Zdansky. Type *M. major* Zdansky.

Zdansky, O. 1924 B, 123.

Inasmuch as the species here referred to *Metailurus* have usually been assigned to *Pseudælurus* citations are made to the literature of this genus. Unless otherwise indicated *Pseudælurus* is used.

Hay, O. P. 1902 A, 782.
Boulenger, G. A. 1919 A, 41.
Depéret, C. 1912 A, 709.
Gaudry, A. 1875 D, 1282.
Gervais, P. 1852 A, 127.
1859 A, 232.
Haug, E. 1911 A, 1706.
Heilprin, A. 1887 A, 385.
Hoernes, R. 1886 A, 696.
Huene, F. 1927 D, 148.
Leche, W. 1915 A, 320.
Lull, R. S. 1917 B, 569, 571.
Lydekker, R. 1896 D, 289.
Matthew, W. D. 1901 B, 374.
1909 C, 118.
1910 C, 290, 308, 311, figs. 2c, 7d.
1924 C, 65, 72, 147.
1928 B, 974, fig. 13.
Merriam, J. C. 1906 A, 61.
Osborn, H. F. 1909 D, 77, 80.
1910 B, 629.
Pilgrim, G. E. 1915 B, 147.
Schlosser, M. 1898 F, 134, 135.
1902 J, 142.
Schmidt, O. 1886 A, 277.
Scott, W. B. 1913 A, 545.
Trouessart, E. L. 1904 A, 264.
Winge, H. 1924 A, 177, 186, 242.
Zittel and Schlosser 1911 A, 398.
1923 A, 479, 608, 673, 679.

Metailurus intrepidus (Leidy).

Hay, O. P. 1902 A, 782 (Pseudælurus).
Matthew, W. D. 1901 B, 359 (Pseudælurus).
1909 C, 114 (This species?); 116 (Pseudælurus).
1910 C, 290, 312 (Pseudælurus).
1924 C, 147 (Pseudælurus).
Merriam, J. C. 1917 A, 436, fig. 5 (Pseudælurus. This species?).
1919 A, 469 (Pseudælurus).
Merrill, G. P. 1907 A, 59 (Pseudælurus).

Pavlow, M. 1908 A, 41 (Pseudælurus. This species?).
Sinclair, W. J. 1915 A, 76, 81 (Pseudælurus. This species?).
Thorpe, M. R. 1922 E, 446 (Pseudælurus).
Zdansky, O. 1924 B, 127, 131.
Miocene (Middle); Colorado: Miocene (Arikaree); Nebraska; Russia? (M. Pavlow).

Metailurus intrepidus sinclairi (Matthew).

Matthew, W. D. 1918 A, 185, 196, fig. 6 (Pseudælurus).
Zdansky, O. 1924 B, 131, 134.

Metailurus marshi (Thorpe).

Thorpe, M. R. 1922 E, 446, fig. 12 (Pseudælurus).
Zdansky, O. 1924 B, 131, 134.
Upper Miocene (Valentine); Nebraska.

Metailurus sp. indet.

Merriam, J. C. 1917 A, 429 (Pseudælurus). Pliocene (Thousand Creek); Nevada.
1919 A, 450, 469, 527, fig. 27 (Pseudælurus). Miocene (Barstow); California.
Merriam and Stock 1928 A, 8, text-fig. 2 (Pseudælurus). Pliocene (Thousand Creek); Nevada.

FELINÆ Gill.

Gill, T. 1872 B, 59.
Hay, O. P. 1902 A, 781.
Abel, O. 1913 B, 715.
1914 A, 71.
1920 A, 423.
Ameghino, F. 1905 C, 446.
Arldt, T. 1912 A, 702, 748.
Frassetto, F. 1903 A, 309.
Giebel, C. G. 1855 A, 20.
Gray, J. E. 1867 C, 261 (Felina).
Matthew, W. D. 1909 C, 103, 105, 107, 110, 112, 114, 116, 118, 120.
1910 C, 308.
Osborn, H. F. 1909 D, 126.
Pocock, R. I. 1917 A, 332.
Schlosser, M. 1902 J, 144, 233 ("felinen").
Scott, W. B. 1913 A, 530, 543, 681.
Trouessart, E. L. 1904 A, 264.
Weber and Abel 1928 A, 319.
Winge, H. 1924 A, 177, 188 (Felini).
Zittel and Schlosser 1911 A, 398.
1923 A, 479.

FELIS Linnæus. Type *F. catus* Linnæus.

Hay, O. P. 1902 A, 782.
Abel, O. 1914 A, 71.
1919 A, 740, figs. 551, 552.
Adams, L. A. 1919 A, 118.
Alezais, —— 1902 A, 587 ("chat").
Allen, J. A. 1892 A.
Altmann, F. 1925 A, 108.
Ameghino, F. 1889 A, 1012.
1905 C, 445, fig. 91.
1912 B, 170, 176.
Anderson, R. J. 1902 A, 1022, fig. 19.
1902 B, 369, fig. ("puma").
1903 A, 651.
1905 A, 328, figs. 24, 44.
Arldt, T. 1907 D, 167, 201.
Auer, K. 1914 A, 197 ("katze").
Bardeleben, K. 1885 B, 86.
Bardenfleth, K. S. 1913 A, 102.
Bärthold, —— 1904 A, 367.
Beer, G. R. 1926 A, 328, fig. 102.
Bertelli, D. 1909 A, 175.
Beyer, H. 1908 A, 81, 96 ("katze").
Blendinger, W. 1904 A, 465, figs. 11-13.
Boas, J. E. V. 1884 B, 392 ("katze").
1909 A, 531, fig. 7 ("katze").
Bolk, L. 1922 A, 114, fig. 101.
Boule, M. 1906 A.
Boulenger, G. A. 1919 A, 41.
Bradley, O. C. 1905 A, 317, figs. 1, 2 ("lion").
1905 B, 469, figs. 1-13 ("lion").
Brandt and Woldrich 1887 A, 25.
Bronn, H. G. 1838 A, 1309.
1848 A, 491.
1849 A, 719, 783, seq.
Brown, A. E. 1904 B, 93.
Bugnion, E. 1901 A, 94 ("tigre").
Burmeister, H. 1868 C, 188.
Carus and Engelmann 1861 A, 1737.
Corner, E. M. 1896 A, 388.
Cuvier, F. 1825 A, 77, pl. xxiv ("chats").
Cuvier, G. 1805 A.
1809 B, 136.
1825 A, iv, 233, pl. xvii; 407-456, pls. xxxiii-xxxvi.
Depéret, C. 1906 B, 1123.
1909 A, 141.
Dixey, F. A. 1881 A, 68, pl. i, fig. 1 ("cat").
Doran, A. H. G. 1878 A, 391, pl. lix.
Eimer, G. H. T. 1901 A, 258.
Elliot, D. G. 1901 A, 293.
Engelmann, O. 1910 A, 487 ("katze").
Fawcett, E. 1918 A, pl. xi.
Fischer, J. B. 1829 A, 196.
Foote, J. S. 1916 A, 111, 116, 125, pls. xiii, xiv, xvi.
Frassetto, F. 1903 A, 309.
Freund, L. 1911 A, 390.
Frey, H. 1911 A, 414.
Frick, C. 1926 A, 47.
Fuchs, H. 1907 A, 152.
1909 C, 87, figs. 1-5.
1909 D, 206, fig. 46.
1911 B, 410, figs. 49-54 ("katze").
1911 D, 112.
1914 A, 29.
Gaudry, A. 1901 B, 100 ("chat").
Gaupp, E. 1910 C, 356 ("katze").
1911 B, 99 ("katze").
Gegenbaur, C. 1864 C, 187.
1865 C, 559.
Geinitz, E. 1903 A.
1904 A.
Geoffroy St.-Hilaire, E. F. 1832 A, 355 ("chat").
Gervais, P. 1852 A, 122.

Gervais, P. 1859 A, 226.
Giebel, C. G. 1855 A, 21, pls. vi, vii.
  1883 A, pls. l, li, lviii, lxxii, lxxix, lxxx, lxxxix.
Gottlieb, H. 1914 A, 188.
Grant, M. 1904 B, 195.
Gray, J. E. 1867 C, 270.
Gregory, W. K. 1921 A, 77.
Gregory and Camp 1918 A ("cat").
Gregory and Noble 1924 A, 555, fig. 12.
Hasse and Schwarck 1870 A, 102.
Haug, E. 1911 A, 1706.
Hay, O. P. 1923 A, 2, 14.
Heilprin, A. 1887 A, 383, 384.
Hensel, R. 1879 A.
Hilzheimer, M. 1905 B, 594, figs. 1-6.
Hoernes, R. 1886 A, 696.
Hommes, J. H. 1924 A, 21, figs. 26, 41, 49 ("cat").
Hoyer and Babik 1924 A, 451, pl. xxxiii, fig. 4 ("löwe").
Hrdlička, A. 1903 A, 370.
Hue, E. 1907 A, pls. xxxviii, xxxix, xl, lxvii, lxxv, lxxvi, lxxxii, xcvii, cxi, cxxv, cxxxv, cxlviii, clxiii, clxxvii.
Huene, F. 1927 E, 148, figs. 4, 5.
Ihering, H. 1910 A, 117.
Jayne, H. 1898 A, 1-816, figs. 1-611.
Kampfen, P. N. 1905 A, 501.
Klatt, B. 1912 A, 161 ("katze").
Köstlin, O. 1844 A.
Kükenthal, W. 1913 A, 646.
Leche, W. 1887 A.
  1915 A, 316.
  1921 A, 70.
Leunis and Ludwig 1883 A, 182.
Lobley, J. L. 1908 A, 211.
Lockington, W. N. 1884 A, 447.
Lönnberg, E. 1926 A, 1, text-figs. 1-5.
Lubosch, W. 1907 A, 619 ("katze").
Lucae, J. P. 1872 A, 372.
Lull, R. S. 1917 B, 569, 572, fig. 184.
Lydekker, R. 1884 A, 320, pls. xl-xliii.
  1896 D, 26, 282.
Mackenzie, W. 1911 A, 364.
Mackie, S. J. 1863 D, 343.
Martins, C. 1872 A, 308.
Matthew, W. D. 1909 D, 324, text-fig. 3.
  1910 C, 290, 307, 312, figs. 1, 2, 4-7, 9.
  1910 G, 154, 159.
  1915 K, 402.
Mead, C. S. 1909 A, 62.
Merriam, C. H. 1892 A, 62.
Merriam, J. C. 1906 A, 61.
  1911 B, 216.
  1915 F, 259.
Miller, G. S. 1912 A, 456.
  1912 B, 115.
  1924 C, 155.
Mivart, St. G. 1879 B, 509 ("cat").
  1882 B.
Mivart and Clarke 1879 A, 525, pl. lxvi, fig. 7 ("cat").
Mysberg, W. A. 1917 A, 655.
Nehring, A. 1880 A.
Osborn, H. F. 1905 I, 110.
  1907 G, 138, figs. 95, 196.
  1909 D, 126.
Osborn, H. F. 1916 B, 538.
Owen, R. 1845 B, 486, 489, pl. cxxvii, figs. 1-4.
  1845 E, 121.
  1868 A, 880.
Pander and Alton 1822 A, 7, pl. vii ("katzen").
Paulli, S. 1900 B, 502, figs. 15-18.
Pictet, F. J. 1853 A, 325, pl. v, figs. 7-9.
Pilgrim, G. E. 1915 B, 138.
Pocock, R. I. 1916 A, 304, figs.
  1916 B, 443, fig.
  1916 C, 222.
  1916 D, 306.
  1917 A, 333.
Pohl, L. 1911 A, 148.
Rehs, J. 1914 A, 56.
Retterer, E. 1884 A, 478, 507 ("chat").
  1906 A, 201, fig. 3 ("chat").
Retzius, A. 1837 A, 489.
  1849 A, 634.
Reynolds, S. H. 1897 A, 436, 437, 439, 450, fig. 84.
Roth, S. 1908 A, 141.
Rudolf, G. de M. 1922 A, 143, fig. 12 ("cat").
Ruhwandl, G. 1916 B, 109, pls. v, vi.
Schlosser, M. 1898 F, 134, 135.
  1903 I, 209, 219.
Schmidt, O. 1886 A, 276.
Schwalbe, G. 1904 A, 207.
Sclater, P. L. 1875 A, 205.
Scott, W. B. 1913 A, 543, 681.
Serres, M. 1852 B, 183, 194 ("lions").
Strecker, C. 1887 A, 316.
Stromer, E. 1902 A.
  1902 B, 555.
Taschenberg, O. 1899 A, 4570.
Terra, P. 1911 A, 286, figs. 107-109.
Terry, R. J. 1917 A, 281, pls. i-xiii ("cat").
Tims, H. W. M. 1902 A, 336.
  1903 A, 140, fig. 2b.
  1905 B, 1786, fig. 3.
Toldt, C. 1905 A, 318, figs.
Tourneux, F. and J. P. 1912 A, 93, fig. 29.
Trouessart, E. L. 1904 A, 265.
Virchow, H. 1907 A, 43 ("löwe").
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, I, 494.
Weber, M. 1904 A, 529, 542, fig. 398.
Weber and Abel 1928 A, xviii, xix, 303, 319, 341, figs. 190, 192 ("tiger").
Weber and Burlet 1927 A, fig. 195.
Whitehead and Waddell 1911 A, 100, figs. 5-8 ("cat").
Wilder, B. 1872 B, 319.
  1874 A, 301, fig. 1 ("lion").
Williston, S. W. 1910 G, 595.
Winge, H. 1923 A, 354, pl. iii, fig. 7.
  1924 A, 177, 186, 246.
Woodward, A. S. 1898 D, 333.
Worthmann, F. 1922 A, 312, fig. 5 ("katze").
Wortman, J. L. 1902 A, XIII, 120.
Zdansky, O. 1924 B, 141.
Zietzschmann, O. 1917 A, 437 ("katze").
Zittel and Schlosser 1911 A, 399.
  1923 A, 480, 679-681.
Zuckerkandl, E. 1908 A, 501, 536, figs. 2-4 ("katze").
Zukowsky, L. 1922 A, 175.

Felis atrox Leidy.

Leidy, J. 1853 F, 322, pl. xxxiv.
Hay, O. P. 1902 A, 782.
Antevs, E. 1925 A, 75.
Diener, C. 1912 A, 216.
Foster, J. W. 1857 A, 362.
1869 A, 238, 253.
1873 A, 59 ("lion"); 91 (F. atrox).
Freudenberg, W. 1910 A, 33, pl. viii, fig. 3; pl. ix, fig. 5.
1921 A, 138.
Gilbert, J. Z. 1910 B, 33 ("lion").
Haug, E. 1911 A, 1886, 1887.
Hay, O. P. 1919 C, 109.
1923 A, 265, 391.
1923 E, 395 ("extinct tiger").
1927 D, 303, 305.
1928 C, 428.
Jones, J. C. 1925 A, 49.
Leidy, J. 1853 H, 261 (Description insufficient).
Matthew, W. D. 1914 M, 640.
Merriam, J. C. 1909 A, 301, 303.
1912 A, 44.
1915 C, 379, 380, fig. 1.
1918 D, 517, 520.
Merriam and Stock 1921 A, 567.
1925 A, 23.
Miller, L. H. 1925 A, 309.
Osborn, H. F. 1910 B, 467, 473, 486.
1925 D, 533.
Ruschenberger and Tryon 1879 A, 11.
Schmidt, E. 1872 A, 245.
Scott, W. B. 1913 A, 204, 545.
Shimek, B. 1902 A, 285.
1904 A, 305.
Stock, C. 1925 A, 201 (This species?).
Wyman, L. E. 1922 A, 20.
Zdansky, O. 1924 B, 144.
Pleistocene (Early and Middle); Mississippi, California, Nevada, Mexico.

Felis atrox bebbi Merriam, J. C.

Merriam, J. C. 1909 A, 301, pl. xxvi; text-figs. 1-3 (F. atrox var. bebbi).
Abel, O. 1926 B, 237.
Archer, W. J. 1918 B, 13 ("lion").
Freudenberg, W. 1911 A, 134.
Gilbert, J. Z. 1910 B, 33, fig.
Hay, O. P. 1927 D, 184, 185, 191.
Matthew, W. D. 1914 I, 46.
1914 M, 640.
Merriam, J. C. 1909 C, 11, fig. ("lion").
1911 A, 164.
1912 A, 43, fig. 10.
Merriam and Stock 1925 A, 10.
Miller, L. H. 1912 A, 78.
Osborn, H. F. 1910 B, 473, 486.
1925 D, 529, 531, 533, fig.
Stock, C. 1925 A, 30.
Swarth, H. S. 1915 A, 21, fig. 9.
Pleistocene (La Brea); California; Mexico (*fide* Freudenberg).

Felis augustus Leidy.

Hay, O. P. 1902 A, 782.
Freudenberg, W. 1910 A, 31.
Hay, O. P. 1919 C, 109.
Matthew, W. D. 1909 C, 116 (Machærodus?).
Merrill, G. P. 1907 A, 37.
Thorpe, M. R. 1922 E, 445.
Miocene (Arikaree); Nebraska.

Felis centralis Mearns.

Mearns, E. A. 1901, Proc. Biol. Soc. Wash., XIV, 139.
Gidley, J. W. 1927 E, 274 (This species?).
Hay, O. P. 1927 D, 374 (This species?).
Miller, G. S. 1912 B, 116.
1924 C, 155.
Recent; Costa Rica: Pleistocene; Florida.

Felis couguar Kerr.

Kerr, R. 1792, Anim. Kingd., I, 151.
Hay, O. P. 1902 A, 782 (F. concolor).
Ameghino, F. 1889 A, 1012 (F. concolor).
Anderson, R. J. 1905 A, 328, fig. 21 (F. concolor).
Brown, A. E. 1904 B, 94 (F. concolor).
Brown, B. 1908 A, 186, pls. xix, xxiii (F. cougar).
Cuvier, G. 1809 B, 142 (F. concolor).
Dewey, M. 1918 A, 144, figs. 7, 8 ("mountain lion").
Diener, C. 1912 A, 224 (F. concolor).
Eaton, G. F. 1922 A, 436, 438 (F. concolor).
Elliot, D. G. 1901 A, 293, pl. xxviii (F. concolor).
Fischer, J. B. 1829 A, 197 (F. concolor).
Foote, J. S. 1916 A, 134, pl. xviii (F. concolor).
Frech, F. 1907 A, 315 (F. concolor).
1910 A, 35 (F. concolor).
1921 A, 139 (F. concolor).
Freudenberg, W. 1922 A, 4 (F. concolor?).
Frey, H. 1911 A, 415 (F. concolor).
Gray, J. E. 1867 C, 265 (F. concolor).
Hahn, W. L. 1909 A, 540 (F. cougar).
Haug, E. 1911 A, 1887 (F. concolor).
Hay, O. P. 1914 A, 32 (F. cougar).
1920 B, 109 (F. couguar?).
1923 A, 337, 348.
1924 D, 252 (F. cougar).
1927 D, 251.
Heilprin, A. 1887 A, 19, 383 ("couguar").
Hensel, R. 1879 A, 553 (F. concolor).
Hrdlička, A. 1903 A, 370 (F. concolor).
Ihering, H. 1910 A, 125 (F. concolor).
Lockington, W. N. 1884 A, 453 (F. concolor).
Lydekker, R. 1896 D, 101 (F. concolor).
Matthew, W. D. 1902 F, 321 (F. concolor?).
1910 C, 312, fig. 12 (F. concolor).
Merriam, C. H. 1901 A, 582 (F. cougar).
Merriam, J. C. 1927 A, 268, fig. ("mountain lion").
Miller, G. S. 1912 B, 116.
1924 C, 158.
Osborn, H. F. 1909 D, 89 (F. concolor).
1910 B, 477 (F. concolor).
Pocock, R. I. 1916 C, 227 (F. concolor).
1916 D, 316 (F. concolor).
1916 E, 327 (F. concolor).
1917 A, 336 (Puma concolor).
Rusconi, C. 1927 A, 293, 294 (F. puma).
Scharff, R. F. 1911 A, 107 (F. concolor).
Scott, W. B. 1913 A, 168, 544, 545, figs. 85, 270, 271 (F. concolor).

Stock, C. 1925 A, 199 (F. concolor. This species?).
Trouessart, E. L. 1904 A, 266.
Volk, E. 1911 A, 32, 54 ("puma").
Recent; N. and S. America: Pleistocene; Arkansas?, Illinois?, Maryland.

Felis daggetti Merriam, J. C.

Merriam, J. C. 1918 C, 535.
Abel, O. 1926 B, 237.
Archer, W. J. 1918 A, 1.
Hay, O. P. 1927 D, 184, 191, 197.
Merriam and Stock 1921 A, 567 (This species?).
1925 A, 10, 11 (This species?).
Osborn, H. F. 1925 D, 531, 533.
Stock, C. 1925 A, 30.
Pleistocene (LaBrea, McKittrick); California.

Felis eyra Desmarest.

Desmarest, A. G. 1820, Mammalogie, I, 231.
Hay, O. P. 1902 A, 782.
Baker, F. C. 1920 A, 208, 215, 398.
Elliot, D. G. 1901 A, 295.
Hay, O. P. 1923 A, 312, 314.
Hensel, R. 1879 A, 553.
Ihering, H. 1910 A, 129.
Miller, G. S. 1912 B, 116.
1924 C, 159.
Rhoads, S. N. 1903 A, 232.
Winge, H. 1896 A, 107 (F. eïra).
Recent; Paraguay to Central America?: Pleistocene; Pennsylvania?

Felis hawveri Stock.

Stock, C. 1918 A, 482, figs. 4*a*, 4*b*.
Hay, O. P. 1927 D, 223.
Stock, C. 1925 A, 113.
Pleistocene (Hawver cave); California.

Felis hillianus Cope.

Hay, O. P. 1902 A, 782.
Cope, E. D. 1893 A, 55, pl. xiv, figs. 1-11 (F. hillanus).
Dumble, E. T. 1894 A, 559.
Gidley, J. W. 1903 C, 627.
Hay, O. P. 1919 C, 109.
Matthew, W. D. 1909 C, 120 (F. hillanus).
1910 C, 290.
Merriam, J. C. 1917 A, 434.
Montgomery, T. H. 1904 A, 58.
Osborn, H. F. 1909 D, 83.
1910 B, 366.
Scharff, R. F. 1911 A, 107.
Zdansky, O. 1924 B, 130, 144 (To Metailurus?).
Pliocene (Blanco); Texas.

Felis hyænoides Freudenberg.

Freudenberg, W. 1910 A, 37, pl. ix, figs. 1-3.
1914 A, 501 (Smilodontopsis).
1921 A, 137, 138 (Smilodontopsis).
1922 A, 4.
Pliocene?; Mexico.

Felis imperialis Leidy.

Hay, O. P. 1902 A, 782.
Ashley, G. H. 1895 A, 362 ("lion").
Bovard, J. F. 1907 A, 155, 156, 164.
Cooper, J. G. 1875 A, 390.
Freudenberg, W. 1910 A, 31, pl. viii, fig. 3; pl. ix, fig. 5.
1921 A, 138.
1922 A, 4.
Haug, E. 1911 A, 1887 (Felix).
Hay, O. P. 1919 C, 109.
1927 D, 305.
McCornack, E. C. 1920 A, 16, 23 (This species?).
Matthew, W. D. 1902 F, 321 (This species?).
Merriam, J. C. 1905 B, 173.
1909 A, 303.
Osborn, H. F. 1910 B, 474, 486.
Scott, W. B. 1913 A, 204.
Stock, C. 1925 A, 199 (This species?).
Pleistocene?; California, Washington State, Mexico.

Felis inexpectata (Cope).

Hay, O. P. 1902 A, 783.
Baker, F. C. 1920 A, 208, 215, 398.
Frech and Geinitz 1903 A, 36.
Freudenberg, W. 1910 A, 36.
Haug, E. 1911 A, 1886 (Uncia).
Hay, O. P. 1919 C, 109.
1920 B, 108.
1923 A, 312, 316.
Osborn, H. F. 1910 B, 469 (Uncia).
Rhoads, S. N. 1903 A, 232.
Schlosser, M. 1902 H, 142 (Uncia).
Pleistocene (Early); Pennsylvania.

Felis longicrus B. Brown.

Brown, B. 1908 A, 187, pls. xviii, xxiii.
Freudenberg, W. 1910 A, 36.
Hay, O. P. 1914 A, 32.
1920 B, 108.
1924 D, 252.
Pleistocene (Illinoian?); Arkansas.

Felis? maxima Scott and Osborn.

Hay, O. P. 1902 A, 783.
Matthew, W. D. 1909 C, 116 (Machærodus?).
1918 A, 185 (This genus and species?).
Matthew and Cook 1909 A, 378, fig. 7 (This species?).
Merriam, J. C. 1917 A, 436 (This species?).
Sinclair, W. J. 1915 A, 76 (F. maxima, This genus?).
Trouessart, E. L. 1904 A, 266.
Pliocene (Snake Creek); Nebraska.

Felis oregonensis (Rafinesque).

Rafinesque, C. S. 1912, Atlant. Jour., I, 62 (Felix).
Bovard, J. F. 1907 A, 156, 165, pl. xiv, figs. 3-5 (F. hippolestes).
Elliot, D. G. 1901 A, 294 (F. concolor oregonensis).
Freudenberg, W. 1910 A, 35, fig. 7 (F. onza?).
1921 A, 17 ("jaguar"); 139 (F. onza?).
1922 A, 4 (F. onza?).
Furlong, E. L. 1904 A, 55 (F. hippolestes).
1906 A, 245 (F. hippolestes?).
1907 A, 393 (F. hippolestes?).
Hay, O. P. 1927 D, 302, 305 (F. o. hippolestes).

McCornack, E. C. 1920 A, 16, 23 (F. concolor, F. cougour).
Merriam, C. H. 1897, Proc. Biol. Soc. Wash., xi, 219 (F. hippolestes).
Merriam, J. C. 1912 A, 42, figs. 4-9 (F. hippolestes?).
Miller, G. S. 1912 B, 117.
1924 C, 158.
Miller, L. H. 1912 A, 70, 73, 74 (F. hippolestes).
Osborn, H. F. 1910 B, 474 (F. concolor).
Sinclair, W. J. 1903 A, 711 (Felis "near" hippolestes).
1904 A, 17 (F. hippolestes).
Stock, C. 1925 A, 195 (This species?).
Wyman, L. E. 1922 A, 20, fig. 13.
Recent; Wyoming to Pacific Ocean: Pleistocene; California, Oregon, Mexico.

Felis veronis Hay.

Hay, O. P. 1919 C, 108-109, pl. xxviii, figs. 5-7.
1923 A, 382.
1924 B, 259 ("tiger").
1927 C, 281 ("tigers").
Pleistocene (Early); Florida.

Felis sp. indet.

Bovard, J. F. 1907 A, 163. Pleistocene (Rancho La Brea); California.
Cooke, C. W. 1926 A, 445 ("tiger"). Pleistocene; Florida.
Freudenberg, W. 1910 A, 6 ("jaguar"). Pleistocene; Mexico.
Frick, C. 1921 A, 341, figs. 47, 48 (This genus?). Pliocene (Eden); California.
Hay, O. P. 1914 A, 26.
1920 B, 143. Pleistocene (Middle); Texas.
1923 A, 321, 376. Pleistocene; Florida.
1924 D. 247. Pleistocene; Texas.
1927 D, 305. Pleistocene; California.
Merriam, J. C. 1911 B, 205, 211, 212, 214, 251, 252, figs. 17-19. Pliocene (Virgin Valley and Thousand Creek beds); Nevada.
1917 A, 428, 429, 439. Pliocene (Rattlesnake); Oregon; (One Thousand Creek); Nevada: (Dunnellon); Florida.
Merriam and Stock 1925 A, 10. Pleistocene (Potter Creek cave); California.
Merriam, Stock, Moody 1925 A, 58, 67, figs. 20, 21 ("felid sp. A." This genus?); 58, 68, ("felid sp. B." This genus?). Pliocene (Rattlesnake); Oregon.
Miller, L. H. 1912 A, 81. Pleistocene (Fossil Lake); Oregon.
Sinclair, W. J. 1903 A, 711 ("sp. nov.").
1904 A, 17 ("Felis n. sp."); 20 (Felis sp.?); 20 ("Felis sp. indet."). Pleistocene (Fossil Lake); Oregon.
Stock, C. 1925 A, 18, 21, 113, 195. Lower Pliocene (Eden); California: Pleistocene (La Brea, Upper San Pedro, caves); California: (Christmas Lake); Oregon.
Thorpe, M. R. 1922 E, 445, 450 (This genus?). Tertiary; Nebraska.

LYNX Kerr. Type *Felis lynx* Linnæus.

Kerr, R. 1792, Anim. King., i, 41, 155.
Allen, J. A. 1892 A.
Baird, S. F. 1857 A, 89.
Bangs, O. 1897 A, 47.
Brandt and Woldrich 1887 A, 32 (Felis).
Doran, A. H. G. 1878 A, 391 (Felis).
Flower and Lydekker 1891 A, 518 ("lynxes").
Frech, F. 1906 A, 481 ("luchs").
Gervais, P. 1852 A, 125 (Felis).
1859 A, 229 (Felis).
Grant, M. 1904 B, 195.
Gray, J. E. 1867 C, 276 (Lyncus).
Hasse and Schwarck 1870 A, 100 (Felis lynx).
Howes, G. B. 1893 C, 592 (Felis).
Hue, E. 1907 A, pls. xxxix, lxxvi, lxxxii, xcvii, cxi, cxxv, cxxxv, cxlviii, clxiii ("lynx").
Leche, W. 1915 A, 317.
1921 A, 70.
Leunis and Ludwig 1883 A, 186.
Lydekker, R. 1896 D, 189 ("lynxes").
1910 E, 352 ("lynx").
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1912 B, 118.
1924 C, 159.
Osborn, H. F. 1909 D, 89, 90.
1916 B, 541.
Palmer, T. S. 1904 A, 390, 828.
Paramore, R. H. 1910 A, 1459, fig. 11 ("lynx").
Pocock, R. I. 1917 A, 334.
Retzius, A. 1837 A, 489.
Schlosser, M. 1898 F, 134, 135.
Scott, W. B. 1913 A, 153, 163, 169, 517, 544.
Seton, E. T. 1909 A, 677.
Taschenberg, O. 1899 A, 4579 (Felis).
Trouessart, E. L. 1904 A, 276 (Subg. of Felis).
Weber, M. 1904 A, 529.
Weber and Abel 1928 A, 320.
Zittel and Schlosser 1923 A, 681.

Lynx calcaratus (Cope).

Hay, O. P. 1902 A, 782 (Felis).
Baker, F. C. 1920 A, 208, 215, 398 (Felis).
Hay, O. P. 1923 A, 312, 316.
Pleistocene (Early); Pennsylvania.

Lynx canadensis Kerr.

Kerr, R. 1792, Anim. King., i, Cat. between 32, 33; 157.
Hay, O. P. 1902 A, 782 (Felis).
Baird, S. F. 1857 A, 99.
Bangs, O. 1897 A, 48.
Cuvier, G. 1825 A, iv, 443 ("lynx du Canada").
Elliot, D. G. 1901 A, 295 (Felis).
Fischer, J. B. 1829 A, 212 (Felis).
Hay, O. P. 1923 A, 310.
1927 D, 251.
Hrdlička, A. 1903 A, 371 (Felis).
Lockington, W. N. 1884 A, 465, fig. 218 (L. canadensis, L. borealis).
Lydekker, R. 1896 D, 195 (Felis).
McCornack, E. C. 1920 A, 16, 23 (Felis).
Matthew, W. D. 1902 F, 321 (Felis. This species?).
Mercer, H. C. 1894 A, 97 ("lynx").

Miller, G. S. 1912 B, 119.
1924 C, 160.
Osborn, H. F. 1909 D, 89 (Felis).
1910 B, 474 (Felis).
Pocock, R. I. 1916 E, 329, fig. 3 (Felis).
Rhoads, S. N. 1903 A, 232.
Seton, E. T. 1909 A, 677, pls. xlviii, xlix; text-figs. 163-187, map 39.

Recent; Canada and northern United States: Pleistocene; Pennsylvania and Oregon.

Lynx compressus B. Brown.

Brown, B. 1908 A, 185, pl. xviii.
Hay, O. P. 1914 A, 32.
1924 D, 252.

Pleistocene (Middle); Arkansas.

Lynx fasciatus fasciatus Rafinesque.

Rafinesque, C. S. 1817, Amer. Monthly Mag., ii, 46 (L. fasciatus).
Baird, S. F. 1857 A, 96 (L. fasciatus).
Hay, O. P. 1927 D, 215 (L. fasciatus).
Miller, G. S. 1912 B, 119.
1924 C, 160.
Miller, L. H. 1912 A, 70 (L. fasciatus).
Osborn, H. F. 1925 D, 531 (Felis lynx).
Stock, C. 1925 A, 113 (L. fasciatus).

Recent; coast region of northwestern U. S.: Pleistocene (Caves); California.

Lynx fasciatus parvus Bovard.

Bovard, J. F. 1907 A, 165, pl. xiv, fig. 2 (Felis).
Elliot, D. G. 1901 A, 297 (Felis).
Miller, L. H. 1912 A, 70 (L. fasciatus n. subsp.?).
Sinclair, W. J. 1903 A, 711.
1904 A, 17.

Pleistocene (Caves); California.

Lynx rufus (Schreber).

Schreber, J. C. D. 1777, Säugethiere, Th. iii, 412, pl. cix A (Felis).
Hay, O. P. 1902 A, 783 (Felis ruffus).
Allen, J. A. 1902 A, 90.
Baird, S. F. 1859 A, 90.
Bangs, O. 1897 A, 49, pl. ii, fig. 3 (L. ruffus).
Brown, B. 1908 A, 186, pl. xviii (This species?).
Cuvier, G. 1825 A, iv, 443 (Felis).
Elliot, D. G. 1901 A, 296 (Felis).
Frech and Geinitz 1903 A, 36 (L. rufus).
Hay, O. P. 1914 A, 32 (F. ruffus).
1923 A, 489 (L. ruffus).
1924 D, 252.
Lockington, W. N. 1884 A, 466.
Lydekker, R. 1896 D, 197 (Felis rufa).
Miller, G. S. 1912 B, 120.
1924 C, 161.
Pocock, R. I. 1916 C, 227 (Felis).
Pocock, R. I. 1916 E, 331 (Felis).
Scott, W. B. 1913 A, 544, fig. 269.
Simpson, G. G. 1928 H, 2, 10.

Recent; eastern United States: Pleistocene (Middle); Arkansas.

Lynx rufus californicus Mearns.

Mearns, E. A. 1897, Proc. U. S. Nat. Mus., xx, 458.
Abel, O. 1926 B, 237 (Felis).
Elliot, D. G. 1901 A, 298 (Felis).
Merriam, C. H. 1899, N. Amer. Fauna, No. 16, 104 (L. californicus).
Merriam, J. C. 1910 A, 394 (L. californicus).
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 120 (L. ruffus californicus).
1924 C, 161.
Osborn, H. F. 1925 D, 531.

Recent; region of San Diego County, California: Pleistocene (La Brea); Los Angeles, California.

Lynx rufus fischeri (J. C. Merriam).

Merriam, J. C. 1910 A, 394 (L. californicus fischeri).
Hay, O. P. 1927 D, 184, 191 (L. r. fischeri); 184 (L. californicus fischeri).
Miller, L. H. 1912 A, 78 (L. occidentalis fischeri).
Stock, C. 1925 A, 30 (L. "near" rufus californicus).
Swarth, H. S. 1915 A, 22 (L. californicus fischeri).

Pleistocene (La Brea); California.

Lynx rufus floridanus (Rafinesque).

Rafinesque, C. S. 1817, Amer. Monthly Mag., ii, 46.
Baird, S. F. 1859 A, 91.
Bangs, O. 1897 A, 49, pl. ii, fig. 4.
1898 A, 234 (L. ruffus f.).
Elliot, D. G. 1901 A, 299 (Felis).
Gidley, J. W. 1927 E, 274 (This species?).
Hay, O. P. 1917 E, 46, 64.
1923 A, 382 (L. ruffus flor.).
1927 D, 274.
Miller, G. S. 1912 B, 120 (L. ruffus flor.).
1924 C, 161.
Sellards, E. H. 1916 C, 152, 158, pl. xxviii, fig. 3 ("Lynx").
1916 E, 17 (Lynx sp).

Recent; Florida: Pleistocene; Florida.

Lynx sp. indet.

Gidley, J. W. 1920 B, 282 ("lynx"). Pleistocene (Middle); Maryland.
Hay, O. P. 1923 A, 350. Pleistocene (Sangamon); Maryland.

Suborder PINNIPEDIA Illiger.

Illiger, C. 1811 A, 138.
Hay, O. P. 1902 A, 783.
Abel, O. 1904 A, 183.
1907 G, 10, 34 ("robben").
1908 A, 479 ("pinnipeds").
Abel, O. 1912 D, 600 ("robben").
1912 F, 124, 175, 693 ("pinnipedier").
1913 B, 712 ("pinnipedier").
1914 A, 57, 80 ("pinnipedien").
1919 A, 747.

Abel, O. 1920 A, 423.
Adloff, P. 1903 A, 367 ("pinnipedier").
1913 C, 8 ("pinnipedier").
1917 B, 350.
1920 A, 179, 188 ("pinnipedier").
Ameghino, F. 1889 A, 1022.
1905 C, 439.
1906 A, 356.
Anthony, R. 1912 A ("pinnipèdes").
1913 A, 248 ("pinnipeds").
Arldt, T. 1907 D, 674.
Bardeleben, K. 1885 B, 85.
Bayer, F. 1897 A, 147.
Beddard, F. E. 1902 A, 446.
Boas, J. E. V. 1914 B, 577, 582 ("pinnipedien").
Bolk, L. 1913 A, 102 ("pinnipedier").
Bonaparte, C. L. 1832 A, 287.
Branca, W. 1915 A, 50.
Braus, H. 1906 A ("pinnipedier").
Broman, I. 1920 A, 299-406.
Brown, A. E. 1904 B, 90 ("seals").
Carruccio, A. 1913 B, 178 (Pinnipedi).
Carus, V. 1875 A, 131.
Case, E. C. 1899 B, 182 (Pinnipeda).
Cope, E. D. 1891 N, 75, 90.
Dana, J. D. 1863 C, 333 ("pinnipeds").
Dollo, L. 1922 A, 216 ("pinnipèdes").
Doran, A. H. G. 1878 A, 399.
Eggeling, H. 1904 A, 97 ("pinnipedier").
Eimer, G. H. T. 1901 A, 163, 219 ("pinnipedier").
Elliot, D. G. 1901 A, 355.
Fleischmann, A. 1904 A, 483.
Fraas, E. 1904 A, 24 ("pinnipedier").
1905 B, 376.
Frassetto, F. 1915 A, 30.
Frey, H. 1911 A, 416.
Gegenbaur, C. 1864 C, 191 ("pinnipedien").
Giebel, C. G. 1855 A, 80.
1883 A ("pinnipedier").
Gottlieb, H. 1914 A, 210 ("pinnipedier").
Gray, J. E. 1844 A, 2 ("seals").
Gregory, W. K. 1910 A, 71, 312, 314, 315, 416, 465.
1920 A, 156, 239.
Hasse and Schwarck 1870 A, 105.
Hay, O. P. 1923 A, 21.
Hilzheimer, M. 1913 A, 566.
Hoernes, R. 1886 A, 697.
Hogben, L. T. 1919 A, 74.
Howes, G. B. 1903 A, 326.
Huxley, T. H. 1870 F, 531 ("seals").
Jacobi, A. 1921 A, 217 ("pinnipedier").
Jaekel, O. 1911 A, 229 (Phocidi).
Kellogg, R. 1922 A, 23-132.
1924 C, 755 ("pinnipeds").
Köstlin, O. 1844 A ("seehunde").
Koken, E. 1893 B, 487, 499 ("pinnipedier").
Kükenthal, W. 1913 A, 501.
Larger, R. 1913 A, 718 ("pinnipèdes").
Leboucq, H. 1904 A, 120 ("pinnipedier").
1904 B, 1 ("pinnipèdes").
Leche, W. 1887 A.
1900 A, 1021.
Leriche, M. 1910 C, 369 ("pinnipèdes").
Leunis and Ludwig 1883 A, 201.
Lockington, W. N. 1884 A, 466.
Lucae, J. C. 1872 A, 285 ("pinnipedien")
1875 A.
Lull, R. S. 1917 B, 322.
Lydekker, R. 1907 C, 453.
Martins, C. 1857 A, 81 ("pinnipèdes").
Matthew, W. D. 1901 A, 8.
1905 D, 45.
1909 D, 316, 413, 430, 531.
1915 A, 223.
Miller, G. S. 1924 C, 162.
Osborn, H. F. 1907 G, 13, 131, 143.
1910 B, 533.
Osburn, R. C. 1903 A, 653.
1906 A, 447.
Owen, R. 1857 E (Pinnigrada).
1858 A, 31 ("pinnigrades").
Palacký, J. 1902 C, 25 ("pinnipedien").
Parker and Haswell 1897 A, 475.
Perna, G. 1906 A, 122.
Pohl, L. 1909 A, 382 ("pinnipedier").
1911 A, 115, 149 ("pinnipedier").
Pompeckj, J. F. 1925 A, 10 ("robben").
Reche, O. 1905 B, 244.
Rehs, J. 1914 A, 2, 64.
Reynolds, S. H. 1897 A, 550.
Römer, F. 1907 A, 67 ("robben").
Ryder, J. 1887 A, 346 ("pinnipeds").
1887 B.
Schlosser, M. 1897 B, 19 ("pinnipedier").
1904 B, 447.
Sclater, P. L. 1897 A, 350.
Seeley, H. G. 1886 A, 516.
Steinmann, G. 1907 A, 474.
1912 A, 46 ("pinnipedier").
Sterling, S. 1910 C, 668 ("pinnipedier").
Stromer, E. 1902 B, 561 ("pinnipedier").
1908 B, 157 (Fissipedia, *errore*).
1912 A, 182.
Taschenberg, O. 1899 A, 4438.
Terra, P. 1911 A, 292.
Thompson, D. W. 1889 A, 226 ("pinnipèdes")
Tornier, G. 1891 A, 153.
Trouessart, E. L. 1904 A, 279.
Underhill, B. M. 1910 A, 85.
Van den Broeck, A. J. P. 1912 A, 783.
Wagner, R. 1843 A, 12.
Weber, M. 1886 A, 231, 240.
1904 A, 543.
Weber and Abel 1928 A, 343, 348, 353.
Weber and Burlet 1927 A.
Woodward, H. 1904 B, 163.
Woodward, M. F. 1894 B, 436.
Wortman, J. L. 1894 A, 157.
1901 B, XI, 338; XII, 281.
1902 A, XIII, 104.
1906 A, 90.
Zittel and Schlosser 1911 A, 399.
1923 A, 480, 482.

DESMATOPHOCIDÆ, new family.

DESMATOPHOCA Condon. Type *D. oregonensis* Condon.

Condon, T. 1906 A, 5.
Lydekker, R. 1907 C, 452.
  1908, Internat. Cat. Sci. Lit. for 1906, Mamm., 68 (Desmatognathus).
Matthew, W. D. 1915 A, 224.
Weber and Abel 1928 A, 353.
Wortman, J. L. 1906 A, 90.

Desmatophoca oregonensis Condon.

Condon, T. 1906 A, 5, pls. i, ii.
  1910 A, 117 ("seal"); pl. vi (Desmatophoca).
Hay, O. P. 1915 B, 383.
Kellogg, R. 1921 A, 213.
  1922 A, 31, 59, 62, 84, tab. 1.
  1925 B, 71, 97.
Lydekker, R. 1908, Internat. Cat. Sci. Lit. for 1926, Mamm., 68 (Desmatognathus).
Smith and Packard 1919 A, 97.
Wortman, J. L. 1906 A, 90.
  Middle Miocene; Oregon.

OTARIIDÆ Gill.

Gill, T. 1866 A, 10, 13.
Hay, O. P. 1902 A, 783.
Abel, O. 1907 A, 227 ("ohrenrobbe").
  1907 G, 11, fig. 8 ("ohrenrobbe").
  1908 E, 405.
  1912 F, 688, 689 ("otariiden").
  1913 B, 718 ("otariiden").
  1914 A, 81 ("otariiden").
  1921 A, 222 ("ohrenrobben").
Allen, J. A. 1870 A, 1 (Otariadæ).
Ameghino, F. 1906 B, 4 (Otaria).
Arldt, T. 1907 D, 670.
  1912 A, 702, 703, 748.
Bateson, W. 1892 A, 105.
Beddard, F. E. 1902 A, 450.
Boas, J. E. V. 1914 B, 583 ("ohrenrobben").
Braun, M. 1908 A, 409 ("ohrenrobben").
Camerano, L. 1916 B, 9, pl. iv, figs. 8, 9 (Otaria).
Condon, T. 1906 A, 13.
Doran, A. H. G. 1878 A, 399, 407, pl. lix.
Eggeling, H. 1904 A, 97, fig. 38 (Otaria).
Elliot, D. G. 1901 A, 355.
Fraas, E. 1905 B, 377.
Giebel, C. G. 1883 A ("ohrrobben").
Gill, T. 1871 C, 683 (Otariadæ).
Gottlieb, H. 1914 A, 189 (Otaria).
Gray, J. E. 1866 B, 228.
  1869 D, 264 (Otariadæ).
  1874 A, 24 (Otariadæ).
Henderson, J. 1904 A, 466 ("sea-lions").
Hennicke, C. 1902 A, 159, 163.
Hogben, L. T. 1919 A, 74.
Kampfen, P. N. 1905 A, 543.
Kellogg, R. 1921 A, 212.
  1922 A, 26, 51, 58.
  1925 B, 72, 97.
  1927 C, 28.
Köstlin, P. 1844 A ("otarien").
Leboucq, H. 1889 A, 573 (Otaria).
Leche, W. 1887 A ("otarien").
  1900 A, 1021.
Le Damany, P. 1903 G, 139, fig. 5 ("otarie").
  1906 A, 63, figs. 17, 18 ("otarie").
  1906 B, 164 ("otarie").
Leriche, M. 1910 C, 370 ("otaries").
Leunis and Ludwig 1883 A, 203 (Otariæ).
Lilljeborg, W. 1860 A, 297 (Otaria).
Lobley, J. L. 1908 A, 200, 204.
Lockington, W. N. 1884 A, 470.
Lucas, F. A. 1904 E, 537 ("seals").
Matthew, W. D. 1915 A, 224.
Meckel, J. F. 1825 A ("seehunde").
Metcalf, M. M. 1904 A, 722 ("seals and sea-lions").
Miller, G. S. 1924 C, 162.
Nilsson, S. 1841 A, 328 (Otaria).
Owen, R. 1845 B, 505 (Otariæ).
Pohl, L. 1911 A, 149, pl. vii, fig. 38.
Rehs, J. 1914 A, 64.
Reynolds, S. H. 1897 A, 439, 498 (Otaria).
Ryder, J. 1887 B, 434, 447 (Otariæ, Otariadæ).
Schlosser, M. 1897 B, 18 ("robben").
Sclater, P. L. 1897 A, 350.
Taschenberg, O. 1899 A, 4643.
Tornier, G. 1891 A, 162 (Otaria).
Trouessart, E. L. 1904 A, 279.
Van Beneden, P. J. 1871 A, 62 ("otaries").
Wagner, R. 1843 A ("seehunde").
Weber, M. 1904 A, 548.
Weber and Abel 1928 A, 343, 349.
Winge, H. 1896 A, 126, 128.
  1924 A, 178, 192, 205, 208, 244 (Otariidæ, Otariini).
Wortman, J. L. 1894 A, 159.

ZALOPHUS Gill. Type *Otaria californiana* Lesson.

Gill, T. 1866 A, 7.
Allen, J. A. 1880 A, 275.
Miller, G. S. 1912 B, 121.
  1924 C, 162.

Zalophus sp. indet.

Kellogg, R. 1927 C, 33, fig. 7. Pleistocene (Early); California.

ALLODESMUS Kellogg. Type *A. kernensis* Kellogg.

Kellogg, R. 1922 A, 26, seq.
Hay, O. P. 1927 D, 173, 174.
Kellogg, R. 1927 C, 27.
Zittel and Schlosser 1923 A, 481.

Allodesmus kernensis Kellogg.

Kellogg, R. 1922 A, 26, figs. 1-19, tab. i.
Hanna, G. D. 1923 A, 65, pl. ix, figs. *h*, *j*, *k*.
Hay, O. P. 1927 D, 173, 174.
Kellogg, R. 1925 B, 71.
Middle Miocene (Temblor); California.

PONTOLIS True. Type *Pontoleon magnus* True.

True, F. W. 1905 B, 253. (To replace Pontoleon preocc.).
Lydekker, R. 1907 C, 452 (Pantoleon).
Matthew, W. D. 1915 A, 224 (Pontoleon).
True, F. W. 1905 A, 47 (Pontoleon, type *P. magnus* True).
1909 A, 144.

Pontolis magnus True.

True, F. W. 1905 A, 48 (Pontoleon).
Dall, W. H. 1909 A, 17.
Kellogg, R. 1921 A, 212.
1922 A, 29, 60, tab. i.
1925 B, 97, 98, 14 figs. (This species).
Lydekker, R. 1905 C, 230.
True, F. W. 1905 B, 253.
1909 A, 144, pls. xxi-xxiii.
Middle Pliocene (Empire); Oregon.

Pontolis sp. indet.

Kellogg, R. 1922 A, 60, tab. i ("otarid").
Lower Pliocene; California.

PITHANOTARIA Kellogg. Type *P. starri* Kellogg.

Kellogg, R. 1925 B, 74.

Pithanotaria starri Kellogg.

Kellogg, R. 1922 A, 70 ("phocid").
Kellogg, R. 1925 B, 74, pls. xii, xiii; text-figs. 1-10.
Sarmatian or Upper Miocene; California.

PLIOPEDIA Kellogg. Type *P. pacifica* Kellogg.

Kellogg, R. 1921 A, 213.

Pliopedia pacifica Kellogg.

Kellogg, R. 1921 A, 213, figs. 1, 4, 6-13.
1922 A, tab. i.
Kellogg, R. 1925 B, 97.
Upper Miocene (Santa Margarita); California.

EUMETOPIAS Gill. Type *Otaria stelleri* Lesson.

Hay, O. P. 1902 A, 783.
Allen, J. A. 1870 A, 45.
Elliot, D. G. 1901 A, 355.
Gill, T. 1871 C, 676, 681.
Gray, J. E. 1844 A, 5 (Otaria).
1866 B, 232.
1869 D, 269.
Heilprin, A. 1887 A, 391.
Kellogg, R. 1922 A, 28, seq.
1925 B, 102.
1927 C, 27.
Lockington, W. N. 1884 A, 471.
Miller, G. S. 1912 B, 121.
1923 A, 9, 10, pl. ii, fig. 2; pl. iii, fig. 1.
1924 C, 162.
Owen, R. 1845 B, 509, pl. cxxxii (Otaria).
Ryder, J. 1887 B, 439.
Taschenberg, O. 1899 A, 4569.
True, F. W. 1909 A, 145.
Weber, M. 1904 A, 549 (Otaria).
Weber and Abel 1928 A, 342, 346, 351, fig. 208.

Eumetopias jubata (Schreber).

Schreber, J. C. D. 1776, Säugethiere, III, 7 (Phoca).
Hay, O. P. 1902 A, 783 (E. stelleri).
Allen, J. A. 1870 A, 46, pl. i; pl. ii, figs. 9-15 (E. stelleri).
Doran, A. H. G. 1878 A, 400 (E. stelleri).
Elliot, D. G. 1901 A, 355, pl. xxxix (E. stelleri).
Gill, T. 1871 C, 681 (E. stelleri); 679 (Otaria jubata).
Gray, J. E. 1844 A, 5 (E. stelleri).
1866 B, 237 (E. stelleri).
1874 A, 25 (E. stelleri).
Hanna, G. D. 1923 A, 65.
Hay, O. P. 1927 D, 302 (E. stelleri); 305 (E. jubata).
Kellogg, R. 1921 A, 212, figs. 2, 5.
1922 A, 37, 61, tab. i (E. stelleri).
1925 B, 99, 15 figs.
1927 C, 35, 36.
Lockington, W. N. 1884 A, 471, fig. 220 (E. stelleri).
Matsumoto, H. 1926 A, 13, pl. vi (E. stelleri).
Miller, G. S. 1912 B, 121.
1924 C, 162.
Palacký, J. 1902 C, 252 (E. stelleri).
Trouessart, E. L. 1904 A, 279.
Van Beneden, P. J. 1877 A, 9, 10, 13 (E. stelleri).
Recent; North Pacific to Patagonia: Pleistocene (?); California, Japan.

DUSIGNATHUS Kellogg. Type *D. santacruzensis* Kellogg.

Kellogg, R. 1927 C, 27.

Dusignathus santacruzensis Kellogg.

Kellogg, R. 1927 C, 27, figs. 1-7.
Upper Miocene (Santa Margarita); California.

ODOBENIDÆ Palmer.

Palmer, T. S. 1904 A, 833.
Hay, O. P. 1902 A, 783.
Abel, O. 1914 A, 81 ("trichechiden").
Allen, J. A. 1870 A, 20 (Rosmaridæ).
 1880 A, 5, 17 (Odobænidæ).
Arldt, T. 1907 D, 246, 265 (Trichechidæ).
 1912 A, 748.
Beddard, F. E. 1902 A, 451 (Trichechidæ).
Berry and Gregory 1906 A, 448 (Odobænidæ).
Boas, J. E. V. 1914 B, 583 ("walrosse").
Bonaparte, C. L. 1832 A, 287 (Trichechidæ).
Carus, J. V. 1875 A, 133 (Trichechina).
Cuvier, F. 1825 A, 233 ("morses").
Elliot, D. G. 1901 A, 357 (Trichecidæ).
Gervais, P. 1859 A, 275 ("trichéchidés").
Gill, T. 1871 C, 676, 682 (Rosmariadæ).
Gray, J. E. 1821 A, 302 (Trichecidæ).
 1825 A, 340 (Trichechidæ).
Hasse, C. 1910 A, 298 ("morses").
Hoernes, R. 1886 A, 697 (Odobænidæ).
Hogben, L. T. 1919 A, 74 (Trichechidæ).
Kampfen, P. N. 1905 A, 545 (Trichechidæ).
Kellogg, R. 1922 A, 46, 98.
Kükenthal, W. 1913 A, 502 (Trichechidæ).
Leunis and Ludwig 1883 A, 202 (Trichechina).
Lobley, J. L. 1908 A, 200 (Trichechidæ).
Lockington, W. N. 1884 A, 467 (Trichechidæ).
Martins, C. 1872 A, 307 ("morses").
Matthew, W. D. 1915 A, 224 ("walruses").
Meckel, J. F. 1825 A ("wallrosse").
Miller, G. S. 1912 B, 126.
 1924 C, 167.
Osborn, H. F. 1910 B, 533 (Odobænidæ).
Reynolds, S. H. 1897 A, 557, 558 (Trichechidæ).
Rutten, L. 1907 A, 798 ("trichechiden").
 1907 B, 2 ("trichechids").
Sclater, P. L. 1897 A, 350 (Trichechidæ).
Sokolowsky, A. 1908 A, 237 ("walrosse").
Terra, P. 1911 A, 294 (Trichechidæ).
Trouessart, E. L. 1904 A, 281 (Trichechidæ).
Van Beneden, P. J. 1877 A, 23 (Trichecina); 39 ("trichécides").
Wallace, A. R. 1876 A, ii, 203 (Trichechus).
 1894 A, 435 (Trichechidæ).
Weber and Abel 1928 A, 343, 351.
Wichmann, C. E. A. 1907 A, 798 ("trichechiden").
Winge, H. 1924 A, 178, 208 (Trichechini).
Zittel and Schlosser 1911 A, 400.
 1923 A, 483 (Trichechidæ).

PROROSMARUS Berry and Gregory. Type *P. alleni* Berry and Gregory.

Berry and Gregory 1906 A, 444.
Kellogg, R. 1922 A, 52, 56, 84, 100.
Weber and Abel 1928 A, 353.

Prorosmarus alleni Berry and Gregory.

Berry and Gregory 1906 A, 444, 447, figs. 1, 4.
Clark and Miller 1912 A, 167, 168 (Prorosmerus).
Kellogg, R. 1922 A, 26, 47, 100, tab. i.
 Upper Miocene (Yorktown); Virginia.

ODOBENUS Brisson. Type *Phoca rosmarus* Linnæus.

Unless otherwise indicated the authors cited use for this genus the name *Trichechus*.

Hay, O. P. 1902 A, 784 (Odobenus).
Abel, O. 1907 A, 227 ("walross").
 1910 B, (186) ("walross").
 1912 F, 465 ("walross"); 705.
Allen, J. A. 1870 A, 23 (Rosmarus).
Anderson, R. J. 1902 A, 119, fig. 8.
Bardeleben, K. 1889 A, 107 ("walross").
Beddard, F. E. 1902 A, 451.
Berry and Gregory 1906 A, 444 (Odobænus).
Bonsdorff, E. J. 1871 A, 318.
Bronn, H. G. 1849 A, 719.
Carus, V. 1875 A, 133.
Cuvier, F. 1825 A, 234, pl. xci ("morses").
Cuvier, G. 1803 A, 165 ("morse").
 1805 A.
Doran, A. H. G. 1878 A, 401, pl. lix.
Eimer, G. H. T. 1901 A, 262.
Elliot, D. G. 1901 A, 358, 513.
Fraas, E. 1905 B, 377.
Gervais, P. 1859 A, 275.
Giebel, C. G. 1855 A, 82.
 1878 C, 853 ("wallross").
 1883 A, pls. xxxvi, lxi, lxxiv, lxxxii.
Gill, T. 1871 C, 683 ("walrus").
Gottlieb, H. 1914 A, 189.
Gray, J. E. 1844 A, 3 (Trichechus).
 1866 B, 229 ("morse").
Gregory, W. K. 1920 A, 157, fig. 100 (Odobænus).
Hasse, G. 1910 A, 298 ("morse").
 1911 A, 172.
Hasse and Schwarck 1870 A, 105, figs. 32-34.
Heilprin, A. 1887 A, 391 (Trichechus).
Hoernes, R. 1886 A, 697.
 1912 A, 661.
Kellogg, R. 1922 A, 31, 54.
Kingsley, J. S. 1925 A, 296, fig. 319 ("walrus").
Köstlin, O. 1844 A.
Lankester, E. R. 1880 A, 144.
Larger, R. 1913 A, 708 ("morses").
Lataste, F. 1887 A, 270 ("morse").
Leboucq, H. 1889 A, 573.
 1904 A, 122.
Leche, W. 1887 A (Rosmarus).
Le Damany, P. 1906 B, 164 ("morses").
Leunis and Ludwig 1883 A, 202.
Lockington, W. N. 1884 A, 468.
Lucae, J. P. 1872 A, 370.
Martins, C. 1857 A, 69 ("morses").
Meckel, J. F. 1825 A.
Miller, G. S. 1912 B, 126 (Odobenus).
 1924 C, 167 (Odobenus).
Nilsson, S. 1841 A, 321.
Osborn, H. F. 1910 B, 449, 487, 489, 490, 533 (Odobænus).
Owen, R. 1845 E, 126 ("walrus").
Palmer, T. S. 1904 A, 470, 834 (Odobenus).
Pander and Alton 1826 A, 6.
Peters, W. 1872 A, 151 (Odobænus).
Pictet, F. J. 1853 A, 223.

Retzius, A. 1837 A, 491.
Reynolds, S. H. 1897 A, 558.
Rutten, L. 1907 A, 798.
  1907 B, 2.
Ryder, J. 1887 B, 431, fig. 3 ("walrus").
Schmidt, O. 1886 A, 287.
Scott, W. B. 1917 A, 32, 130 ("walrus").
Seeley, H. G. 1876 C, 177 ("walrus").
Steenstrup and Sundevall 1860 A, 270 (Odobænus, Odontobænus).
Steinmann, G. 1908 A, 262, figs. 169, 172.
Stromer, E. 1902 B, 555.
Taschenberg, O. 1899 A, 4697.
Terra, P. 1911 A, 294.
Trouessart, E. L. 1904 A, 281.
Turner, H. N. 1848 A, 84 ("walrus").
Weber and Abel 1928 A, 345, 351.
Wichmann, C. E. A. 1907 A, 798.
Wilder, B. 1872 B, 319.
Winge, H. 1924 A, 178, 208, 244.
Zittel and Schlosser 1923 A, 483.

Odobenus divergens (Illiger).

Illiger, J. C. W. 1815, Abh. Akad. Wiss. Berlin, 1804-1811 (1815), 68 (Trichechus).
Barrett-Hamilton, G. E. H. 1897 A, 266 (Trichechus obesus).
Elliot, D. G. 1901 A, 358 (Trichechus obesus).
Hanna, G. D. 1919 A, 220 ("walrus." This species?).
Kellogg, R. 1921 A, 212.
Matsumoto, H. 1926 A, 15, pl. vii (Odobœnus obesus).
Miller, G. S. 1912 B, 126 (O. obesus).
  1924 C, 167.
Quackenbush, L. S. 1909 A, 92, 125, 127 (O. sp. indet.).
Sclater, P. L. 1897 A, 350 (Trichechus obesus).
Stejneger, L. 1919 A, 145.
  1928 A, 157.
Trouessart, E. L. 1904 A, 282 (Trichechus obesus).
Weber and Abel 1928 A, 351 (O. obesus).

Recent; coast of northeastern Asia and northern coast of Alaska: Pleistocene; Nome, Alaska; St. Paul Island, in Behring Strait.

Odobenus rosmarus (Linnæus).

Unless otherwise indicated the authors cited use the genus name *Trichechus*.

Hay, O. P. 1902 A, 784 (Odobenus).
Abbott, C. C. 1881 A, 483 ("walrus").
Abel, O. 1902 B, 515.
Anonymous 1912 B, 269.
Arldt, T. 1907 D, 265.
Beddard, F. E. 1900 A, 320 ("walrus").
Berry and Gregory 1906 A, 445, figs. 2, 4 (Odobænus).
Boyd, C. H. 1882 A, 234 ("walrus").
Bradley, O. C. 1903 B, 50-52 ("walrus").
Brandt and Woldrich 1887 A, 57.
Clapp, F. G. 1908 A, 522 (Rosmarus obesus).
Cleland, J. 1903 A, 647 ("walrus").
Cuvier, G. 1825 A, iv, 280 (Trichechus); v, 2, 521, pl. xxxiii ("morse").
Dall, W. H. 1894 A, 297 (Rosmarus sp. This species?).
Dana, J. D. 1863 A, 3 ("walrus").
Elliot, D. G. 1901 A, 358, pl. xli.
Eudes-Deslongchamps, E. 1836 A, 134.
Fischer, J. B. 1829 A, 243.
Gervais, P. 1852 A, 140.
  1859 A, 275.
Gray, J. E. 1844 A, 3.
Hasse, G. 1910 A, 298.
Hay, O. P. 1916 B, 330 ("walrus").
  1919 D, 364 ("walrus").
  1923 A, 492 (Odobenus).
  1927 C, 282 ("walruses").
Huard, V. A. 1908 A, 51 (Odobænus).
Kellogg, R. 1922 A, 50.
Lankester, E. R. 1880 A, 144.
Leche, W. 1887 A, 603 (Rosmarus arcticus).
Lewis, H. C. 1881 A, 544 ("walrus").
  1883 B, 366, 374 ("walrus").
Lockington, W. N. 1884 A, 468, fig. 219.
Lull, R. S. 1917 A, 477.
Lyell, C. 1845 B, i, 258, pl. v, fig. 1.
Matschie, P. 1901 A, 308.
Matthew, W. D. 1912 G, 269.
Miller, G. S. 1912 B, 126 (Odobenus).
Moreau, L. J. 1900 A, 112 (Odobænus rosmarinus).
Newberry, J. S. 1871 C, 316 ("walrus").
Newton, E. T. 1882 A, 27.
Nilsson, S. 1841 A, 322.
Owen, R. 1845 B, 510, pl. cxxxii, fig. 8.
  1868 A, 912.
Packard, A. S. 1867 A, 243, 246, 268 (Odobenus).
  1868 B, 268 ("walrus").
Palacký, J. 1902 C, 252.
Pander and Alton 1826 A, 10, pls. i, ii.
Pohl, L. 1911 A, 150, pl. vii, fig. 38.
Provancher, l'abbé 1869 A, 19.
Rutten, L. 1907 A, 807 ("walrus").
  1907 B, 2.
Sclater, P. L. 1897 A, 350.
Sokolowsky, A. 1908 A, 241.
  1909 A, 636 ("walrosse").
Stejneger, L. 1928 A, 157.
Stone, G. H. 1899 A, 54, 287 ("walrus").
Van Beneden, P. J. 1871 A, 67.
  1877 A, 71.
Weber, M. 1904 A, 549, 550, fig. 408.
Weber and Abel 1928 A, 344, 350, figs. 210, 214.
Wichmann, C. E. A. 1907 A, 802.
Winge, H. 1904 A, 237.
Wright, G. F. 1905 A, 18 ("walrus").
  1911 A, 282 ("walrus").
  1911 C, 42 ("walrus").

Recent; Arctic regions to Labrador: Pleistocene; Labrador, Nova Scotia, Massachusetts, New Jersey, North Carolina, South Carolina.

Odobenus virginianus (De Kay).

Hay, O. P. 1902 A, 784.
Kellogg, R. 1922 A, 50, 104, tab. i (Odobenotherium).
Rhoads, S. N. 1903 A, 233 (Rosmarus).
Toula 1897 A, 50, 55 (Trichechus).

Pleistocene; Virginia.

Odobenus sp. indet.

McAdams, W. 1883 A, lxxx ("walrus." Alton, Ill. Certainly something else).

PHOCIDÆ Gray.

Gray, J. E. 1825 A, 340.
Hay, O. P. 1902 A, 784.
Abel, O. 1912 F, 124 ("phociden").
  1913 B, 718 ("phociden").
  1914 A, 81 ("phociden").
Allen, J. A. 1902 C, 459.
Arldt, T. 1907 D, 673.
  1912 A, 702.
Ash, F. H. 1908 A, 79 ("seals").
Bateson, W. 1892 A, 105.
Beddard, F. E. 1902 A, 452.
Bolk, L. 1913 A, 103 ("phociden").
Bonaparte, C. L. 1832 A, 287.
Branca, W. 1915 A, 50.
Carus, V. 1875 A, 134 (Phocina).
Cleland, J. 1903 A, 646 ("seals").
Condon, T. 1906 A, 13.
Cuvier, F. 1824 A, 174 ("phoques").
  1825 A, 113 ("phoques").
Cuvier, G. 1825 A, v, pt. 1, 198-234.
Dependorf, T. 1907 C, 108 ("phociden").
Doran, A. H. G. 1878 A, 402.
Du Bus, B. 1867 A, 565 ("phoques").
Duvernoy, Y. L. 1822 A, 49 ("phoques").
Elliot, D. G. 1901 A, 359.
Fawcett, E. 1918 B, pls. i-xi ("seals").
Fraas, E. 1905 B, 277.
Gervais, P. 1852 A, 137, 199 ("phoques").
  1859 A, 269 ("phocides").
Gill, T. 1871 C, 683.
Gray, J. E. 1821 A, 302 (Phocadæ).
  1869 E, 342.
Gregory, W. K. 1920 A, 158.
Hennicke, C. 1902 A, 158, 163.
Hoernes, R. 1886 A, 697.
Hogben, L. T. 1919 A, 74.
Howell, A. B. 1927 A.
Kampfen, P. N. 1905 A, 537.
Kellogg, R. 1922 A, 66, 85.
  1925 B, 72 ("phocids").
Leche, W. 1887 A.
  1902 A, 45.
Leunis and Ludwig 1883 A, 204 (Phocina).
Lobley, J. L. 1908 A, 200, 204.
Lockington, W. N. 1884 A, 474.
Lull, R. S. 1917 B, 331.
Martins, C. 1857 A, 69 ("phoques").
  1872 A, 307 ("phoques").
Matthew, W. D. 1915 A, 224.
  1928 B, 974, fig. 13 ("seals").
Meckel, J. F. 1825 A ("phoken").
Miller, G. S. 1912 B, 122.
  1924 C, 163.
Nilsson, S. 1841 A, 301 ("phoken").
Osborn, H. F. 1910 B, 317, 321, 533.
Osburn, R. C. 1903 A, 656.
Owen, R. 1868 A, 900.
Pander and Alton 1826 A, 3 ("robben").
Perrier, E. 1920 A, 152 ("phoques").
Pohl, L. 1911 A, 151 ("phociden").
Rehs, J. 1914 A, 64.
Reynolds, S. H. 1897 A, 369, 480, 497.
Ryder, J. 1887 B, 446.
Scharff, R. F. 1911 A, 280 ("seals").
Schlosser, M. 1897 B, 18 ("phociden").
Schmidt, O. 1886 A, 287 ("seals").
Sclater, P. L. 1897 A, 351.
Scott, W. B. 1917 A, 32 ("seals").
Stromer, E. 1902 B, 555 ("phociden").
  1903 B, 37.
Thompson, D. W. 1889 A, 226 ("phocides").
Trouessart, E. L. 1904 A, 282.
True, F. W. 1905 C, 794 ("seals").
  1906 A, 837.
Turner, H. N. 1820 A, 260 ("seals").
Van Beneden, P. J. 1871 A, 61 ("phoques").
  1877 A, 23 (Phocina).
Vicq-d'Azyr, F. 1922 A, cvi (Phocini).
Wallace, A. R. 1876 A, I, 140; II, 203.
  1894 A, 435.
Wallisch, W. 1906 A, 308.
Weber, M. 1904 A, 550.
Weber and Abel 1928 A. 351.
Winge, H. 1896 A, 126, 128.
  1924 A, 178, 192, 205, 209, 212, 244.
Wortman, J. L. 1894 A, 159.
Zittel and Schlosser 1911 A, 400.
  1923 A, 481, 482.

CYSTOPHORINÆ Gill.

Gill, T. 1866 A, 4, 9.
Allen, J. A. 1870 A, 31.
Flower and Lydekker 1891 A, 605.
Gill, T. 1872 B, 7, 70.
Kellogg, R. 1922 A, 89.
  1927 C, 28.
Weber and Abel 1928 A, 352.

CYSTOPHORA Nilsson. Type *C. borealis* Nilsson = *Phoca cristata* Erxleben.

Hay, O. P. 1902 A, 785.
Arldt, T. 1907 D, 81.
Beddard, F. E. 1902 A, 453.
Bronn, H. G. 1849 A, 719.
Carlson, A. 1921 A, 72.
Carus, V. 1875 A, 134.
Eimer, G. H. T. 1901 A, 100.
Elliot, D. G. 1901 A, 360.
Flower, W. H. 1883 D, 444.
Gervais, P. 1852 A, 139 (Stemmatopus).
  1859 A, 270 (Stemmatopus).
Giebel, C. G. 1855 A, 82, pl. xxxvi, figs. 8, 13.
  1883 A, pl. xxxvi.
Gray, J. E. 1844 A, 4.
Gray, J. E. 1869 E, 346.
Heilprin, A. 1887 A, 392.
Hensel, R. 1879 A, 533.
Jacobi, A. 1921 A, 202.
Kampfen, P. N. 1905 A, 539, fig. 56.
Kellogg, R. 1922 A, 84.
Leche, W. 1900 A, 1022.
Leunis and Ludwig 1883 A, 204.
Leydig, F. 1859 A, 719.
Miller, G. S. 1912 B, 125.
  1924 C, 166.
Nilson, S. 1841 A, 323.
Owen, R. 1845 B, 505.
Palmer, T. S. 1904 A, 213, 835.

Sclater, P. L. 1897 A, 351.
Terra, P. 1911 A, 292, fig. 116.
Trouessart, E. L. 1904 A, 282.
Van Beneden, P. J. 1871 A, 67.
Wallace, A. R. 1876 A, II, 204.
Weber and Abel 1928 A, 352
Wilder, B. 1872 B, 319.
Winge, H. 1895 B, 76, 92.
1896 A, 128.
1924 A, 178, 209, 244.

Cystophora cristata (Erxleben).

Hay, O. P. 1902 A, 785.
Bateson, W. 1892 A, 106.
Bishop, S. C. 1921 A, 170 (This species?).
Bradley, O. C. 1903 B, 50-52 ("hooded seal").
Cleland, J. 1903 A, 646 (Stemmatopus).
Cuvier, F. 1824 A, 197, pl. xii (Phoca).
Dall, W. H. 1894 A, 297 (C. sp. This species?).
Dollo, L. 1885 D, 624.
Doran, A. H. G. 1878 A, 402, pl. lix.
Elliot, D. G. 1901 A, 360, pl. xlv.
Flower, W. H. 1892 A, 144.
Gervais, P. 1852 A, 139, pl. xlii (Phoca, Stemmatopus).
Gervais, P. 1859 A, 270, pl. xlii (Stemmatopus).
Giebel, C. G. 1848 A, 224 [Phoca (Cystophora) proboscidea].
Gray, J. E. 1844 A, 4.
Hartnagel and Bishop 1921 A, 82.
Hay, O. P. 1923 A, 26.
Jacobi, A. 1921 A, 206, fig. 4.
Kellogg, R. 1922 A, 71, tab. i (C. proboscidea).
Lockington, W. N. 1884 A, 477, fig. 222.
Lyell, C. 1845 B, 257 ("seal").
Meckel, J. F. 1825 A (Phoca).
Miller, G. S. 1912 B, 125.
1924 C, 166.
Nilson, S. 1841 A, 326.
Owen, R. 1845 B, 505, pl. cxxxii, fig. 7 (C. proboscidea).
1868 A, 876.
Pictet, F. J. 1853 A, 233 (Phoca proboscidea).
Van Beneden, P. J. 1871 A, 63.
1877 A, 12, 17 (Cystophora); 33 (Phoca proboscidea).

Recent; western coast of North Atlantic: Pleistocene (Late); New York.

LOBODONTINÆ.

Allen, J. A. 1870 A, 31 (Stenorhynchidæ).
Gill, T. 1872 B, 7, 69 (Stenorhynchinæ).
Kellogg, R. 1922 A, 69 (Lobodoninæ).
Weber and Abel 1928 A, 352 (Lobodoninæ).

LOBODON Gray. Type *Phoca carcinophaga* Homb., Jacq.

Hay, O. P. 1902 A, 785.
Broman, I. 1920 A, 304, 16 pls.; 5 text-figs.
Doran, A. H. G. 1878 A, 403, pl. lix.
Gill, T. 1871 C, 676 (Stenorhinchus).
Gray, J. E. 1844 A, 2, 5 (Lobodon); 6 (Stenorhynchus).
1869 E, 345 (Lobodon, Stenorhynchus).
Kellogg, R. 1922 A, 84, 115.
Leboucq, H. 1904 B, 5, figs. 2, 4, 5.
Owen, R. 1845 B, 506, pl. cxxxii, fig. 4 (Stenorhynchus).
1868 A, 909 (Stenorhynchus).
Winge, H. 1924 A, 178, 211, 244.

Lobodon vetus Leidy.

Hay, O. P. 1902 A, 785.
Gray, J. E. 1866 A, 10 (Stenorhynchus).
Kellogg, R. 1922 A, 67, 115 (Lobodon); 68 (Stenorhynchus).
Palacký, J. 1902 C, 251 (Stenorhynchus).
Rhoads, S. N. 1903 A, 233 (Ogmorhinus).
Toula, F. 1897 A, 50 (Stenorhynchus).
Van Beneden, P. J. 1877 A, 28.

Upper Cretaceous (Greensand marl); New Jersey.

PHOCINÆ Gill.

Gill, T. 1866 A, 5, 8.
Allen, J. A. 1870 A, 31.
Flower and Lydekker 1891 A, 600.
Gill, T. 1872 B, 7, 69.
Kellogg, R. 1922 A, 81, 84.
Weber and Abel 1928 A, 351.

LEPTOPHOCA True. Type *L. lenis* True.

True, F. W. 1906 A, 836.

Leptophoca lenis True.

True, F. W. 1906 A, 836, pl. lxxv, figs. 2-4; pl. lxxvi, figs. 1-3.
Kellogg, R. 1922 A, 71, 81, 123, tab. i.

Upper Miocene (Calvert); Maryland.

PHOCA Linnæus. Type *P. vitulina* Linnæus.

Hay, O. P. 1902 A, 785.
Abel, O. 1909 D, (225).
1912 F, 692.
1921 A, 234.
Adloff, P. 1903 A, 367.
Ahrens, H. 1912 B, 49.
Allen, J. A. 1902 C, 461.
Anderson, R. J. 1900 A, 790 ("seal").
Anderson, R. J. 1902 A, 119, fig. 5.
1902 B, 369, fig. 5.
1909 A, 745.
Arldt, T. 1907 D, 673.
Beddard, F. E. 1902 A, 452.
Bolk, L. 1913 A, 102.
Bonsdorff, E. J. 1871 A, 318.
Broman, I. 1920 A, 307, pl. xli; 4 text-figs.

Bronn, H. G. 1848 B, 959.
1849 A, 719.
Carlson, A. 1921 A, 72.
Carus, V. 1875 A, 135.
Cleland, J. 1863 B, 298 ("seal").
1903 A, 647.
Cuvier, F. 1825 A, 117.
Cuvier, G. 1805 A.
Dawson, J. W. 1857 A, 414.
Dependorf, T. 1898 A, 384.
1907 C, 109.
Duvernoy, G. L. 1822 A, 49.
Eggeling, H. 1904 A, 97, fig. 39.
Eimer, G. H. T. 1901 A, 26, 156.
Elliot, D. S. 1901 A, 361.
Fischer, J. B. 1829 A, 229.
Gervais, P. 1852 A, 137.
1859 A, 271 (Calocephalus).
Giebel, C. G. 1855 A, 81, pl. xxxvi, figs. 10, 11, 14.
1878 C, 853.
1883 A, pls. xxxvi, lxxxii, xcii.
Gottlieb, H. 1914 A, 189.
Gray, J. E. 1844 A, 3.
1869 E, 345 (Phoca, Pagophilus, Callocephalus).
Hanke, H. 1914 A, 520.
Hasse and Schwarck 1870 A, 107.
Heilprin, A. 1887 A, 392, 393.
Hensel, R. 1879 A.
Hoernes, R. 1912 A, 661.
Hrdlička, A. 1903 A, 381.
Huxley, T. H. 1863 F, 609.
Kampfen, P. N. 1905 A, 537, fig. 55.
Kellogg, R. 1922 A, 84, 93.
Klein, E. E. 1868 A, 81.
Köstlin, O. 1844 A.
Leboucq, H. 1904 A, 122.
Leche, W. 1887 A, pls. xciv, xcvi.
1900 A, 991, 1021, figs. 90, 91.
1912 A, 73.
Le Damany, P. 1906 B, 164 ("phoques").
Leunis and Ludwig 1883 A, 205.
Lockington, W. N. 1884 A, 474.
Lucae, J. P. 1872 A, 285, 371.
1875 A.
Mackie, S. J. 1863 D, 347.
Matthew, W. D. 1915 A, 224.
Meckel, J. F. 1825 A.
Miller, G. S. 1912 B, 122.
1924 C, 163.
Nilsson, S. 1841 A, 301, 309.
Osborn, H. F. 1907 G, 144, fig. 103.
Owen, R. 1845 B, 505, pl. cxxxii, figs. 1, 2.
1868 A, 899.
Palmer, T. S. 1904 A, 532, 835.
Pander and Alton 1826 A, 3 ("phoken").
Paulli, S. 1900 B, 505.
Pohl, L. 1911 A, 151.
Retzius, A. 1837 A, 491.
Ryder, J. 1887 B, 445.
Scharff, R. F. 1911 A, 280.
Schlosser, M. 1897 B, 19.
1898 D, 123.
Sclater, P. L. 1897 A, 351.
Steenstrup and Sundevall 1860 A, 272.
Sterling, S. 1910 A, 179.
Strecker, C. 1887 A, 318.
Stromer, E. 1908 A, 86.
Taschenberg, O. 1899 A, 4656.
Thompson, A. 1902 A, 104 ("seal").
Tornier, G. 1891 A, 160.
Trouessart, E. L. 1904 A, 285.
Veith, A. 1912 A, 19.
Wagner, R. 1843 A.
Weber, M. 1904 A, 550.
Weber and Abel 1928 A, 343, 351, 353.
Weber and Burlet 1927 A, figs. 46, 106, 199.
Wilder, B. 1868 A, 423, pl. xi, fig. 4.
1872 B, 319.
Winge, H. 1924 A, 178, 209, 244.
Woodward, M. F. 1894 B, 446.
Zittel and Schlosser 1911 A, 401.
1923 A, 481.
Zukowsky, L. 1922 B, 189.

Phoca grœnlandica Erxleben.

Erxleben, J. C. P. 1777, Syst. Regni Anim., I, 588.
Hay, O. P. 1902 A, 785.
Allen, J. A. 1902 C, 475.
Ami, H. M. 1897 A, 24 (Pagophilus).
Bateson, W. 1892 A, 108, fig. 2.
Beddard, F. E. 1902 A, 453.
Bell, R. 1897 A, 136 A.
Billings, E. 1856 A, 345 ("seal").
Burlet, H. M. 1917 A, 381.
Cleland, J. 1903 A, 647 (P. greenlandica).
Coleman, A. P. 1901 C, 224 (P. greenlandica).
Cuvier, F. 1824 A, 186, pl. xii (P. grœndlendica).
Dawson, J. W. 1857 A, 405, 414.
1863 F, 920.
1872 B, 403.
1872 C, 99.
1894 C, 267, fig. P. (Pagophilias).
Doran, A. H. G. 1878 A, 401, pls. lix, lx.
Elliot, D. G. 1901 A, 364.
Fischer, J. B. 1829 A, 238, 576.
Giebel, C. G. 1855 A, 81.
Hasse and Schwarck 1870 A, 107.
Hay, O. P. 1923 A, 493.
1927 D, 279.
Hrdlička, A. 1903 A, 381.
Jackson, C. T. 1844 A, 94 ("seal." This species?).
Kellogg, R. 1922 A, 78, 83, 123, tab. i (Pagophoca, near "grœndlandica").
Lambe, L. M. 1904 C, 31, 39, 52.
1912 A, 14.
Leboucq, H. 1889 A, 573.
Leche, W. 1893 B, 129, figs. 5-12.
Leunis and Ludwig 1883 A, 205.
Leydig, F. 1859 A, 719.
Lockington, W. N. 1884 A, 476, fig. 221.
Matthew, G. F. 1879 A, 23.
Meckel, J. F. 1825 A.
Miller, G. S. 1924 C, 165.
Murie, J. 1870 B, 604, pl. xxxii.
Nilsson, S. 1841 A, 314.
Owen, R. 1845 B, 507.
1866 B, 489, fig. 335.
1868 A, 900.
Packard, A. S. 1867 A, 261 ("seal").
Palacký, J. 1902 C, 253.
Pander and Alton 1826 A, 3, pl. iii.

Retzius, A. 1849 A, 636.
Schmidt, O. 1886 A, 289, fig. 51.
Selwyn, A. R. C. 1887 A, 46 ("harp seal").
Stansfield, J. 1915 A, 67 (P. greenlandica).
Stromer, E. 1902 B, 555.
Taylor, F. B. 1908 A, 652 ("seal").
Trouessart, E. L. 1904 A, 287 (Pagophoca).
True, F. W. 1906 A, 836; pl. lxxv, fig. 1.
Turner, W. 1870 A, 263 (Pagophilus).
Van Beneden, P. J. 1871 A, 63.
1877 A, 9, 13, 20, 33 (Pagophilus).
Weber and Abel 1928 A, 352.
Winge, H. 1904 A, 239.
Zittel and Schlosser 1911 A, 401, fig. 569.
1923 A, 481.

Recent; circumpolar, south to Newfoundland and Sitka?: Pleistocene (Leda clay); Quebec, Ontario.

Phoca hispida Schreber.

Schreber, J. C. D. 1775, Säugethiere, III, 312, pl. lxxxvi.
Allen, J. A. 1902 C, 477.
Cleland, J. 1903 A, 647.
Cuvier, F. 1824 A, 189, pl. xii.
Doran, A. H. G. 1878 A, 404, pls. lix, lx.
Elliot, D. G. 1901 A, 364.
Fielden, H. W. 1877 A, 488.
Fielden and De Rance 1878 A, 566.
Fischer, J. B. 1829 A, 239, 577.
Hay, O. P. 1923 A, 493.
Kellogg, R. 1922 A, 121 ("P. near hispida").
Lönnberg, E. 1922 A, 169, figs. 1-6.
Miller, G. S. 1912 B, 123.
1924 C, 164.
Pander and Alton 1826 A, 3, pl. iii.
Turner, W. 1870 A, 263, figs. 1, 2.
Van Beneden, P. J. 1877 A, 14, 18 (Pagomys).
Zukowsky, L. 1922 B, 183, 2 figs. (Pusa).

Recent; Arctic Ocean south to Labrador: Pleistocene or early Recent; Grinnell Land, North Greenland.

Phoca? modesta Leidy.

Hay, O. P. 1902 A, 589 (Squalodon).
Kellogg, R. 1922 A, 128 (Squalodon).
1923 A, 3 (Squalodon); 26 (Phoca?).
Toula, F. 1897 A, 53 (Squalodon).
Trouessart, E. L. 1897 A, 388 (Squalodon).
Van Beneden, P. J. 1877 A, 28.

Edisto marl or Upper Miocene; South Carolina.

Phoca vitulina Linnæus.

Linnæus, C. 1758 A, 38.
Abel, O. 1921 A, 234, fig. 84.
Allen, J. A. 1870 A, 25.
1880 A, 559, figs. 43-48.
1902 C, 467, figs. 1-4.
Ami, H. M. 1897 A, 23, 24 (This species?).
1901 C, 54 (This species?).
Barrett-Hamilton, G. E. H. 1897 A, 267.
Broom, R. 1916 A, 459.
Burlet, H. M. 1917 A, 381.
Cleland, J. 1903 A, 647.
Coleman, A. P. 1901 B, 131 ("seal").
Cuvier, F. 1824 A, 182, pl. xii.
Cuvier, G. 1825 A, IV, 278; V, pt. 1, 200.
Doran, A. H. G. 1878 A, 404, pls. lix.
Duvernoy, G. L. 1822 A, 49, 165.
Elliott, D. G. 1901 A, 363, pl. xlix.
Fischer, J. B. 1829 A, 236.
Frey, H. 1911 A, 415.
Gervais, P. 1852 A, 140 (Calocephalus).
1859 A, 271 (Calocephalus).
Giebel, C. G. 1855 A, 81, pl. xxxvi, fig. 3.
Gray, J. E. 1869 E, 343, 345 (Callocephalus).
Hay, O. P. 1923 A, 493.
Hennicke, C. 1902 A, 158.
Huxley, T. H. 1863 F, 609, 633, fig. 57.
Kellogg, R. 1922 A, 83, 117, tab. i.
1925 B, 77, 78.
Leunis and Ludwig 1883 A, 205.
Leydig, F. 1859 A, 679.
Lockington, W. N. 1884 A, 474.
Lucae, J. P. 1872 A, 277, pls.
1875 A, 373, pls. i-x.
Miller, G. S. 1912 B, 123.
1924 C, 164 (P. v. concolor).
Newton, E. T. 1882 A, 29, pl. v, figs. 1, 2. (This species?).
1891 A, 19 (This species?).
Nilsson, S. 1841 A, 310.
Pander and Alton 1826 A, 3, pl. iv.
Ryder, J. 1887 B, 444.
Taylor, F. B. 1908 A, 652 ("seal").
Toldt, C. 1905 A, 321, figs.
Toula, F. 1897 A, 50.
Trouessart, E. L. 1904 A, 286.
Turner, W. 1870 A, 261.
Van Beneden, P. J. 1871 A, 62.
Weber, M. 1886 A.
Weber and Abel 1928 A, 343, 347, 352, figs. 209, 211.
Zukowsky, L. 1922 B, 186.

Recent; Arctic seas, ascending rivers; south to North Carolina and southern California, also in European waters: Pleistocene (Champlain); Quebec, near Ottawa.

Phoca wymani Leidy.

Hay, O. P. 1902 A, 785.
Clark and Miller 1912 A, 167, 168.
Kellogg, R. 1922 A, 74, 120, tab. i.
True, F. W. 1912 C, 185, 186.

Upper Miocene (Calvert); Maryland.

Phoca sp. indet.

Hay, O. P. 1927 D, 166. Pleistocene; California.
Kellogg, R. 1922 A, 45, 120 (P. sp. a). Upper Miocene (Santa Margarita sands); California.
1922 A, 45, 121 (P. sp. b). Pleistocene (San Pedro); California.
1927 C, 35 ("phocid?". This genus?). Middle Miocene (Temblor); California.
Miller, L. H. 1912 A, 115 ("seals"). Pleistocene (San Pedro); California.

ERIGNATHUS Gill. Type *Phoca barbata* Erxleben.

Gill, T. 1866 A, 5.
Kellogg, R. 1922 A, 84.
Miller, G. S. 1912 B, 124.
1924 C, 165.
Trouessart, E. L. 1905 A, 285 (Subg. of Phoca).
Weber and Abel 1928 A, 352.
Winge, H. 1924 A, 178, 209, 244.

Erignathus barbatus (Fabricius).

Fabricius, O. 1776, Müller's Zool. Dan. Prod., viii (Phoca, *fide* Elliot).
Blainville, H. M. D. 1864 A, ii, 42 (Phoca).
Burlet, H. M. 1917 A, 381 (Phoca).
Cleland, J. 1903 A, 647 (Phoca).
Doran, A. H. G. 1878 A, 405, pl. lx (Phoca).
Elliot, D. G. 1901 A, 382, pl. xlvi (Phoca).
Erxleben, J. C. P. 1877, Syst. Regni Anim., i, 590 (*fide* G. S. Miller).
Fielden, H. W. 1877 A, 488 (Phoca).
Fischer, J. B. 1829 A, 239, 577 (Phoca).
Gray, J. E. 1844 A, 3 (Phoca).
Hay, O. P. 1923 A, 493 (Phoca).
Kellogg, R. 1922 A, 80, 116.
Lockington, W. N. 1884 A, 476.
Miller, G. S. 1912 B, 124.
1924 C, 165.
Newton, E. T. 1891 A, 19 (Phoca, Erignathus).
Roger, O. 1896 A, 74.
Toula, F. 1897 A, 54 (Phoca).
Trouessart, E. L. 1904 A, 285 (Phoca, Erignathus).
Turner, W. 1870 A, 267 (Phoca).
Van Beneden, P. J. 1877 A, 10, 13, 20 (Phoca).
Weber and Abel 1928 A, 347, fig. 213 (Phoca).
Zierler, F. E. 1905 A, 510 (Phoca).
Recent; Arctic seas: Pleistocene; Grinnell Land.

Order CETE Linnæus.

The author is indebted to Dr. Remington Kellogg for the systematic arrangement of the Cete here adopted.

Hay, O. P. 1902 A, 585.
Abel, O. 1901 A, 7 ("cétacés").
1904 A, 183 ("cetaceen").
1905 B, 203, 206 ("cétacés").
1905 C, 375 ("cetaceen").
1905 E, 95 ("cetaceen").
1907 A, 226, 235 ("cetaceen").
1907 C, (80) ("cetaceen").
1907 G, 2, 32 ("wale").
1908 B, 139 ("cetaceen").
1910 B, (186) ("cetaceen").
1912 D, 600 ("wale").
1912 F, 178, 197 ("cetaceen"); 522 ("walen"); 665.
1913 B, 712, 719 ("cetaceen").
1913 C, 155-224.
1914 A, 57 ("cetaceen"); 81 ("wale").
1914 C, 390 ("cetacean").
1919 A, 748 (Cetacea).
1920 A, 424 (Cetacea).
1921 A, 217, 299 ("walen").
Adloff, P. 1901 C, 425 ("wale").
1903 A, 366.
1913 C, 8 ("cetaceen").
1917 B, 349 ("wale").
1920 A, 179, 188 ("cetaceen").
Agassiz, L. 1836 B, 24 ("cétacés").
1844 C, 255 ("cétacés").
Ahlborn, F. 1896 B, 7 ("wale").
Allen, G. M. 1916 A, 110 ("whales").
1921 B, 240 (Cetacea).
Allen, J. A. 1882 A, 399.
1913 B, 454 (Cetacea).
Ameghino, F. 1906 E, 240 ("cétacés").
Anderson, R. J. 1912 D, 253.
1914 A, 533 (Cetacea).
Anthony, R. 1912 A, ("cétacés").
1913 A, 248 ("cétacés").
Arldt, T. 1907 D, 644 (Cetacea).
Ash, F. H. 1908 A, 78 (Cetacea).
Augustin, W. 1913 A, 533 ("cetaceen").
Baer, K. E. 1836 A, 409 ("cétacés").
Baraldi, G. 1877 A, 3, 44 ("cetacei").
Bardeleben, K. 1885 B, 85 (Cetacea).
Bardenfleth, K. S. 1913 A, 69 (Cetacea).
Bateson, W. 1892 A, 103 (Cetacea).
Bayer, F. 1897 A, 147 (Cetacea).
Beddard, F. E. 1900 A.
1902 A, 339 (Cetacea).
Bertelli, D. 1909 A, 158 (Cetacei).
Beyer, H. 1908 A, 81, 99 ("cetaceen").
Black, N. 1900 A, 14 (Cetacea).
Bluntschli, H. 1912 B, 378 ("cetaceen").
1913 B, 195 ("cetaceen").
Boas, J. E. V. 1914 B, 577, 584 ("cetaceen").
Bolk, L. 1922 A, 126 (Cetaceæ).
1922 B, 56 (Cetacea).
Bonaparte, C. L. 1832 A, 293.
Bouvier, L. E. 1889 A, 232 ("cétacés").
1889 B, 302 ("cétacés").
Brandt, J. F. 1865 A, 1 (Cetacea).
Braun, M. 1906 B, 131 ("wale").
1908 A, 400 ("cetaceen").
Braus, H. 1906 A, 175 ("cetaceen").
Broom, R. 1897 B, 252 (Cetacea).
1899 A, 762 (Cetacea).
1915 A, 162 (Cetacea).
Burlet, H. M. 1916 A, 1 ("wale").
1917 A, 373 ("cetaceen").
Burmeister, H. 1879 B, 530 (Bipinnata).
Carruccio, A. 1913 B, 178 (Cetacei).
Carus, V. 1875 A, 163 (Natantia).
Carus and Engelmann 1861 A, 1292, 1720 (Cetacea).
Case, E. C. 1898 C, 829 (Cetacea).
1904 D, 3 (Cetacea).
Clark and Sonntag 1926 A, 459 (Cetacea).
Cleland, J. 1863 B, 302 (Cetacea).
Cope, E. D. 1885 BB, 71 (Cetacea).
1891 N, 67, 69 (Cetacea).
Cuvier, F. 1836 A, i, 1 ("cétacés").
Cuvier, G. 1805 A, ("cétacés").
Dana, J. D. 1863 A, 1 ("cetaceans").
1863 C, 333 ("cetaceans").
Dart, R. A. 1923 A, 615 (Cetacea).
Deinse, A. B. 1916 B, 521 ("cetaceen").
Denker, A. 1902 A, 421 (Cetacea).

Dependorf, T. 1907 A, 561 ("wale").
1907 C, 101 ("cetacean").
Dollo, L. 1884 D, 89 ("cétacés").
1884 E, 81 ("cétacés").
1899 A, 203 ("cétacés").
1901 A, 13.
1905 A, 127 ("cétacés").
1907 D, 159 ("cétacés").
1922 A, 216 ("cétacés").
Doran, A. H. G. 1878 A, 371, 450 (Cetacea).
Eastman, C. R. 1907 C, 79.
Eggeling, H. 1904 A, 98 (Cetacea).
Eimer, G. H. T. 1901 A, 257 ("cetaceen").
Elliot, D. G. 1901 A, 7 (Cetacea).
Eschricht, D. F. 1849 A ("wallthiere").
Fischer, J. B. 1829 A, 501.
Fleischmann, A. 1904 A, 483 (Cetacea).
Flower, W. H. 1870 A, 244 (Cetacea).
Fraas, E. 1904 A, 24 ("cetaceen").
1905 A, lxiii ("waltiere").
1905 B, 380 (Cetacea).
Frassetto, F. 1903 A, 244 (Cetacea).
1915 A, (Cetacea).
Freund, L. 1904 A, 387 ("waltiere").
1906 A, 116 ("cetaceen").
Fuchs, H. L. 1914 A, 28 ("wale").
Gadow, H. 1896 A, 48 (Cetacea).
1914 A, 503 ("cetaceans").
Gaupp, C. 1908 B, 525 (Cetacea).
1913 A, 125 ("cetaceen").
Gegenbaur, C. 1880 A, 592 ("cetacen").
Gervais, P. 1852 A, 146 ("cétacés").
1853 B, 35 ("cétacés").
1859 A, 283 ("cétacés").
Gessner, I. 1921 A, 271 ("cetaceen").
Giebel, C. G. 1855 A, 82 (Cetacea).
1878 C, 853 ("cetaceen").
1883 A, ("cetaceen").
Goodsir, J. 1857 A (Cetacea).
1857 B ("cetaceans").
Gottlieb, H. 1914 A, 189 (Cetacea).
Gray, J. E. 1821 A, 309 (Cetaceæ).
1825 B, 340 (Cetæ).
1846 A, 15.
1863 A, 198.
1870 A, 193 (Cetacea).
1870 B, 387 (Cetacea).
Gregory, W. K. 1910 A, 515 (Cetacea).
1917 D, 624, 635 (Cetacea).
1920 A, 158, 243 (Cetacea).
Guérin, R. 1874 A, 1-145 ("cétacés").
Guldberg, G. 1894 A, 94 ("cetaceen").
1903 A, 803 ("walthiere").
Haeckel, E. 1868 A, 478.
1873 A, 544 (Cetacea).
Hasse and Schwarck 1870 A, 143 (Cetaceæ).
Hay, O. P. 1923 A, 482 ("cetaceans").
Heilprin, A. 1887 A, 341 (Cetacea).
Hennicke, C. 1902 A, 159 (Cetacea).
Hepburn, D. 1901 A, 680 (Cetacea).
Hilzheimer, M. 1913 A, 570 (Cetacea).
Hoernes, R. 1886 A, 698 (Cetacea).
Hogben, L. T. 1919 A, 76 (Cetacea).
Hollard, H. 1864 C, 362 ("cétacés").
Houssay, F. 1910 A, 12 ("cétacés").
Howes, G. B. 1894 A, 78 (Cetacea).
1903 A, 326 (Cetacea).
Howes and Harrison 1893 A, 798 (Cetacea).
Hubrecht, A. A. W. 1908 A, 153 (Cetacea).
Humphry, G. M. 1876 A, 665 ("cetaceans").
Huxley, T. H. 1863 E, 555 (Cetacea).
1863 F, 579, 607, 633 (Cetacea).
1870 F, 528, 531 (Cetacea).
Ihde, —— 1912 A, 265 ("cetacean").
Jaekel, O. 1901 B, 52 ("wale").
1904 A, 33 ("cetaceen").
1908 B, 464 ("cetaceen").
1911 A, 230 (Cetacei).
Kampfen, P. N. 1905 A, 636.
Kellogg, R. 1924 C, 756 (Cetacea).
1925 D, 1-8.
1926 B, 405 ("whales").
1928 A, 30 (Cetacea).
Kingsley, J. S. 1925 A, 211, 296 (Cetacea).
Klein, E. E. 1868 A ("cetaceen").
Knox, R. 1831 A, 400 (Cetacea).
Köstlin, O. 1844 A ("cetaceen").
Koken, E. 1893 B, 487, 489, 506 ("walfische").
Kükenthal, W. 1891 C, 384 ("wale").
1894 B, 69 ("wale").
1897 B, 145 ("cetacean").
1897 C, 182 ("cetacean").
1900 A, 179 ("wale").
1908 A, 609 ("wale").
1908 C, 241 ("wale").
1909 A, 545 ("wale").
1913 A, 681 (Cetacea).
1914 B, 1 ("wale").
Kunze, A. 1912 A, 578 ("wale").
Lataste, F. 1887 A, 268 ("cétacés").
Lavocat, A. 1885 A, 29, 46 ("cétacés").
Leboucq, H. 1889 A, 585 ("cétacés").
1904 B, 15 ("cétacés").
Leche, W. 1887 A (Cetacea).
1900 A, 1026 (Cetacea).
Le Damany, P. 1903 D, 356 ("cétacés").
1903 G, 318 ("cétacés").
Ledouble, A. F. 1903 A, 647 ("cétacés").
Leunis and Ludwig 1883 A, 274 (Natantia).
Leydig, F. 1859 A, 679, 681 ("cetaceen").
Lillie, D. G. 1910 A, 769 (Cetacea).
Lockington, W. N. 1884 A, 178-209 (Cetacea).
Lönnberg, E. 1910 B, 219 ("hvalar").
1911 C, 13.
1911 D, 1-15.
1924 A, 1 ("whales").
Lucas, F. A. 1904 D, 102 ("whales").
Lull, R. S. 1910 D, 153 (Cetacea).
1917 B, 322 (Cetacea).
Lydekker, R. 1887 B, 7.
1901 B, 652 ("whales").
1903 D, 124 ("whales").
1909 D (Cetacea).
1910 F, 655 (Cetacea).
McIntosh, — 1911 A, 82 ("cetaceans").
Major, C. J. F. 1899 B, 64 (Cetacea).
Mantell, G. A. 1844 A, 823 (Cetacea).
Martins, C. 1872 A, 307 ("cétacés").
Matthes, E. 1912 A, 594 ("wale").
1921 C ("wale").
Matthew, W. D. 1912 A, 156 (Cetacea).
Mead, C. S. 1906 A, 481 (Cetacea).
Meckel, J. F. 1825 A ("cetaceen").
Menmuir, W. H. 1902 A, 274 (Cetacea).
Miller, G. S. 1923 A, 1-70 (Cetacea).
1924 C, 504 (Cetacea).

Mitchell, P. C. 1905 A, 467.
Mivart, St. G. 1871 B, 376, 380 (Cetacea).
Moodie, R. L. 1908 D, 462 (Cetacea).
1913 A, 185 (Cetacea).
Nopcsa, F. 1923 B, 357 ("wale").
1923 H, 161, 163 ("wale").
Osborn, H. F. 1905 N, 242 ("cetaceans").
1907 G, 37, 101, 190 (Cetacea).
1910 B, 78, 317 (Cetacea).
1917 B, 322 ("whales").
Osburn, R. C. 1903 A, 653 (Cetacea).
1906 A, 448 (Cetacea).
Owen, R. 1845 E, 120 (Cetacea).
1857 E (Cetacea).
1858 A, 26 (Cetacea).
1868 A, 871 (Cetacea).
1870 D, 1 (Cetacea).
Palacký, J. 1902 C, 255 ("cetaceen").
Pander and Alton 1827 A, 1 ("cetaceen").
Parker and Haswell 1897 A, 450, 471, 499 (Cetacea).
Perrier, E. 1920 A, 152 ("cétacés").
Pictet, F. J. 1853 A, 380 ("cétacés").
Pompeckj, J. F. 1925 A, 10 ("wale").
Puccioni, N. 1908 A, 42 (Cetacei).
Pütter, A. 1923 A, 224 ("wale").
Rabl, C. 1903 A, 155 ("cetaceen").
Reche, O. 1905 B, 150 ("wale").
Rehs, J. 1914 A, 2, 41 (Cetacea).
Retzius, A. 1849 A, 670 (Cetacea).
Reynolds, S. H. 1897 A, 353, 444, 452, 513, 536 (Cetacea).
Römer, F. 1904 A, 77 ("wale").
Röse, C. 1892 F, 402 ("wale").
1892 G, 145 ("wale").
Rutland, J. 1901 A, 21032.
Ryder, J. 1885 G, 1013 (Cetacea).
1887 A, 346 (Cetacea).
1887 B.
Sabatier, A. 1897 B, 933 ("cétacés").
1902 A, 100 ("cétacés").
Schlosser, M. 1899 I, 353 ("cetaceen").
1900 C, 133 ("cetaceen").
Schmidt, O. 1886 A, 246 (Cetacea).
Sclater, P. L. 1875 A, 209 (Cetacea).
Scott, W. B. 1913 A, 60, 123, 125, 442 (Cetacea).
1917 A, 67, 69, 78 (Cetacea).
Seeley, H. G. 1872 A, 275 ("cetaceans").
1876 C, 156 ("whales").
Serres, M. 1852 A, 122, 144 ("cétacés").
Smith, G. E. 1903 A, 326 (Cetacea).
1903 B, 46 (Cetacea).
Steinmann, G. 1907 A, 468 (Cetacea).
1908 A, 234 ("wale").
1909 A, 83 ("cetacean").
1912 A, 45 ("wale").
Steinmann, G. 1912 B, 718 ("cetaceen").
Sterling, S. 1910 A, 179 ("wielorybów").
1910 B, 231 ("wielorybów").
Stromer, E. 1902 B, 555 ("cetaceen").
1908 B, 157 (Cetacea).
1912 A, 184, 244 (Cetacea).
1915 A, 131 (Cetacea).
Symington, J. 1905 A, 100 (Cetacea).
Taschenberg, O. 1899 A, 4427 (Cetacea).
Terra, P. 1911 A, 341 (Cetacea).
Thacker, A. G. 1914 A, 283 ("whales").
Thomas, O. 1888 A, 458 (Cetacea).
Thompson, D. W. 1889 A, 225 ("cétacés").
Tims, H. W. 1905 B, 1785 (Cetacea).
Tredgold, A. F. 1897 A, 295 (Cetacea).
Trouessart, E. L. 1905 A, 753.
Troxell, E. L. 1925 D, 613 ("cetaceans").
True, F. W. 1908 B, 385.
1912 C, 197 (Cetacea).
1912 E, 779 ("cetaceans").
Turner, W. 1871 A, 348 (Cetacea).
Van Bambeke, C. 1868 A, 20 ("cétacés").
Van Bemmelen, J. F. 1914 A, 524 (Cetacea).
1918 A, 575 (Cetacea).
1928 A, 288 ("cétacés").
Van Beneden, P. J. 1836 A, 158 ("cétacés").
1836 B, 318 ("cétacés").
1871 A, 61 ("cétacés").
Vaughan, T. W. 1924 A, 688 (Cetacea).
Vicq-d'Azyr, F. 1792 A, lxxvi ("cétacés").
Wagner, R. 1843 A, 12 (Cetacea).
Wallace, A. R. 1876 A, I, 112, 119, 130, 140 (Cetacea); II, 207 (Cetacea).
Watson, D. M. S. 1913 D, 27 ("whales").
Weber, M. 1886 A (Cetacea).
1904 A, 552 (Cetacea).
Weber and Abel 1928 A, 354, 388 (Cetacea).
Weber and Burlet 1927 A (Cetacea).
Wilder, B. 1872 B (Cetacea).
1875 A, 105 ("cetaceans").
Williston, S. W. 1902 F, 263 ("cetaceans").
1912 E, 261 (Cetacea).
1914 A, 62 (Cetacea).
1925 A, 199 (Cetacea).
Winge, H. 1919 A (Cetacea).
Winge and Miller 1921 A (Cetacea).
Woodward, A. S. 1898 E, 330 (Cetacea).
1909 A, 330 (Cetacea).
1910 B, 470 (Cetacea).
Woodward, H. 1904 B, 154.
Wyman, J. 1867 B, 259, 261, 269 (Cetacea).
Zaaijer, T. 1894 A, 339.
Zittel, K. A. 1877 A, 237 ("cetaceen").
Zittel and Schlosser 1911 A, 401 (Cetacea).
1923 A, 483.

Suborder ZEUGLODONTES Gill.

Unless otherwise indicated the writers, as cited, use for this suborder the name Archæoceti.

Gill, T. 1871 A, 269 (Zeuglodontes).
Hay, O. P. 1902 A, 585 (Zeuglodontes).
Abel, O. 1901 A, 30 ("zeuglodontes").
1901 B, 315 ("zeuglodontes").
1905 A, 22 ("archéocètes").
1905 C, 375 ("archäoceten").
1905 E, 95 ("archäoceten").
Abel, O. 1912 F, 467, 660.
1913 B, 719.
1913 C, 182, 199, 211, 219.
1914 A, 81.
1914 D, 30.
1919 A, 749.
1920 A, 424.
Ameghino, F. 1889 A, 1027 (Zeuglodonta).
1906 E, 237 ("zeuglodontes").

Andrews, C. W. 1906 A, xxiii ("zeuglodonts").
 1907 C, 304 ("zeuglodonts").
 1908 B, 209.
 1908 C ("zeuglodonts").
Arldt, T. 1907 D, 144.
Beddard, F. E. 1900 A, 106, 308.
 1902 A, 384.
Bluntschli, H. 1912 B, 398 ("zeuglodontiden").
Boas, J. E. V. 1914 B, 584 ("zeuglodonten").
Carus, V. 1875 A, 168 (Zeuglodontia).
Case, E. C. 1904 D, 4.
Cope, E. D. 1891 N, 69.
Fraas, E. 1904 A, 3 ("zeuglodonten").
 1905 A, lxiii ("zeuglodonten").
 1905 B, 361, 383.
Gervais, P. 1852 A, 199 ("zeuglodontes").
 1871 B, 80 ("zeuglodontes").
Gregory, W. K. 1910 A, 411, 416-419 (Zeuglodontes).
 1920 A, 243.
Hoernes, R. 1886 A, 69 (Zeuglodontia).
Howes, G. B. 1903 A, 322.
Jaekel, O. 1911 A, 203.
Kellogg, R. 1926 B, 406 ("zeuglodonts").
 1928 A, 29, 36.
Lydekker, R. 1892 C, 560 ("zeuglodonts").
 1907 E, 679 ("zeuglodonts").
 1910 F, 655 ("zeuglodonts").
McIntosh, — 1911 A, 93 ("zeuglodonts").
Matthew, W. D. 1909 D, 315.
Miller, G. S. 1923 A, 12, 13, 40, 42.
Nopcsa, F. 1923 B, 354 ("zeuglodonten").
Osborn, H. F. 1902 E, 356, fig. 1.
 1906 B, 56 (Zeuglodontia).
 1907 H, 613 (Zeuglodontia).
 1910 B, 73, 559 (Zeuglodontia).
Osborn, H. F. 1917 B, 241.
 1925 B, 18.
Parker and Haswell 1897 A, 450.
Peterson, O. A. 1912 B, 164 ("zeuglodonten").
Pompeckj, J. F. 1922 A, 78.
Reynolds, S. H. 1897 A, 356, 426, 461.
Ryder, J. 1887 B, 430 (Phocodontia, Zeuglodontia).
Schmidt, O. 1886 A, 251 (Zouglodonta).
Smith, G. E. 1903 A, 322.
 1903 B, 41.
Steinmann, G. 1908 A, 249.
 1912 B, 727.
Stromer, R. 1903 B, 39.
 1903 D, 91 ("zeuglodonten").
 1908 A, 81.
 1908 B, 106, 148.
 1912 A, 187.
 1915 A, 134.
 1916 A, 413.
 1921 A, 41, 55.
Thompson, D. W. 1889 A, 225 (Zeuglodontes).
Trouessart, E. L. 1903 A, 306 (Zeuglodontes).
 1905 A, 753 (Zeuglodonta).
True, F. W. 1908 B, 386.
 1912 D, 197 (Zeuglodontia).
Weber, M. 1904 A, 581, 583.
Weber and Abel 1928 A, 396.
Winge, H. 1919 A, 68.
Winge and Miller 1921 A, 10.
Woodward, A. S. 1898 B, 270.
 1909 A, 330 ("zeuglodonts").
 1910 B, 470 ("zeuglodonts").
Zittel and Schlosser 1911 A, 405.
 1923 A, 487.

DORUDONTIDÆ Miller.

Miller, G. S. 1923 A, 13, 40.
Kellogg, R. 1928 A, 32.

DORUDON Gibbes. Type *D. serratus* Gibbes.

Hay, O. P. 1902 A, 587.
Abel, O. 1913 C, 205.
Fraas, E. 1905 B, 385 (Doruodon).
Kellogg, R. 1928 A, 32.
Lucas, F. A. 1901 C, 619.
Palmer, T. S. 1904 A, 244, 791.
Stromer, E. 1908 B, 148.
Winge and Miller 1921 A, 62 (Doryodon).
Zittel and Schlosser 1923 A, 488 (Syn. of Basilosaurus).

Dorudon serratus Gibbes.

Hay, O. P. 1902 A, 587.
Abel, O. 1913 C, 204.
Allen, G. M. 1926 A, 459.
Kellogg, R. 1924 C, 758.
Lydekker, R. 1892 C, 559 (Zeuglodon hydrarchus).
Mannigault, G. E. 1887 A, 187.
Trouessart, E. L. 1905 A, 754.
True, F. W. 1908 C, 65, pls. i-iii; 2 text-figs.
Tuomey, M. 1848 A, 156 ("Zeuglodon"); 166 (Zeuglodon).
 1850 B, 156 ("Zeuglodon").
 Upper Eocene (Cooper marl); South Carolina.

ZYGORHIZA True. Type *Zeuglodon brachyspondylus minor* Stromer.

True, F. W. 1908 C, 78.
Kellogg, R. 1928 A, 32.
Winge and Miller 1921 A, 62.

Zygorhiza minor (Stromer).

Stromer, E. 1903 D, 85 (Zeuglodon brachyspondylus minor).
Kellogg, R. 1928 A, 40, 41.
Müller, J. 1849 A, 28, 31, 32, pl. viii, fig. 3; pl. xix, figs. 1-5; pl. xxvi; pl. xxvii, fig. 1 ("kleineres individuum").
True, F. W. 1908 C, 78 (Zeuglodon brachyspondylus minor).
 Upper Eocene (Jackson); Alabama.

BASILOSAURIDÆ Cope.

Cope, E. D. 1867 C, 144.
Unless otherwise indicated the writers, as cited, use for this family the name Zeuglodontidæ.
Hay, O. P. 1902 A, 586 (Basilosauridæ).
Abel, O. 1907 G, 19, fig. 13 (Prozeuglodon).
1913 B, 719.
1913 C, 219.
1919 A, 751.
Ameghino, F. 1889 A, 1027.
Andrews, C. W. 1906 A, 234.
1907 A, 125.
Arldt, T. 1907 D, 689.
1912 A, 702, 703.
Beddard, F. E. 1902 A, 384.
Brandt, J. F. 1873 A, 334 (Stegorhinidæ).
Burmeister, H. 1879 B, 531.
Dart, R. A. 1923 A, 615, 635.
Giebel, C. G. 1855, Säugethiere, 148.
Kampfen, P. N. 1905 A, 652.
Kellogg, R. 1928 A, 32, 206 ("zeuglodonts").
Lönnberg, E. 1911 A, 67.
Lydekker, R. 1909 D, 43.
Miller, G. S. 1923 A, 13, 40.
Osburn, R. C. 1903 A, 652.
Palacký, J. 1902 B, 140 ("zeuglodontiden").
Palmer, J. S. 1904 A, 729, 791 (Basilosauridæ); 776, 791 (Zeuglodontidæ).
Reche, O. 1905 B, 184.
Stromer, E. 1903 B, 36 ("zeuglodonten").
1908 A, 86.
1908 B, 148.
1915 A, 136 (Zeuglodontidæ, Zeuglodontinæ).
Terra, P. 1911 A, 344.
Trouessart, E. L. 1905 A, 753.
Van Beneden, P. J. 1880 A, 30 ("zeuglodons").
Wallace, A. R. 1876 A, ii, 210.
Weber, M. 1904 A, 581.
Wiman, C. 1905 A, 248 ("zeuglodonten").
Winge, H. 1919 A, 68, 69, 73, 103, 117.
Winge and Miller 1921 A, 10, 11, 15, 45.
Zigno, A. de 1876 A, 32 (Zeuglodonti).
Zittel and Schlosser 1911 A, 405.
1923 A, 487, 670.

BASILOSAURUS Harlan. Type *Zeuglodon cetoides* Owen.

Unless otherwise indicated the writers, as cited, use for this genus the name *Zeuglodon*.
Hay, O. P. 1902 A, 586 (Basilosaurus).
Abel, O. 1901 A, 8.
1901 B, 297.
1902 B, 518, pl., fig. 1.
1905 A, 23.
1905 B, 203.
1905 C, 384.
1905 E, 84.
1906 B, 458 (*Alabamornis*, type *A. gigantea* Abel).
1907 C, (80).
1907 G, 20, fig. 14.
1908 A, 486, fig. 14.
1912 F, 477, fig. 390.
1912 G, 70.
1913 B, 719, fig. 22.
1913 C, 161, 178, 202, fig. 14, pl. ix.
1914 A, 84, figs. 46, 47.
1914 C, 390.
1919 A, 750, figs. 558, 559.
1920 A, 424, fig. 643.
Andrews, C. W. 1904 A, 214.
1906 A, xxiii, 236.
1907 A, 124.
1907 C, 304.
1908 B, 209.
1919 A, 310.
1923 A, 648, figs. 23, 24.
Arldt, T. 1907 D, 38.
Ash, F. H. 1908 A, 81 ("zeuglodons").
Beddard, F. E. 1900 A, 308, 320.
1902 A, 384.
Bronn, H. G. 1848 B, 1379.
1849 A, 702.
Capellini, G. 1881 A, 418.
Carus, C. G. 1847 A, 5 (Hydrarchus).
Dall, W. H. 1898 A, 342.
Dal Piaz, G. 1903 A, 219.
Dart, R. A. 1923 A, 616, figs. 1-21.
Fraas, E. 1904 A, 3.
1905 B, 383.
Geinitz, H. B. 1847 B, 1 (Basilosaurus, Hydrarchos, Zygodon).
Gervais, P. 1871 B (Zeuglodon); 83 (Basilosaurus).
Giebel, C. G. 1855 A, 80.
1883 A, 43.
Gregory, W. K. 1920 A, 158.
Hall, T. S. 1911 A, 257.
Heilprin, A. 1887 A, 344.
Hoernes, R. 1886 A, 698.
Holmes, F. S. 1870 A, 64 ("zeuglodon").
Howes, G. B. 1903 A, 323, figs. 1, 2.
Hutchinson, H. N. 1910 A, 297 (Basilosaurus).
Huxley, T. H. 1870 F, 531.
Jaekel, O. 1911 A, 231, fig. 256.
Kampfen, P. N. 1905 A, 652.
Kellogg, R. 1928 A, 32, 36 (Basilosaurus).
Kingsley, J. S. 1925 A, 213, fig. 226.
Koch, A. 1845 C, 2 (Hydrarghos).
1845 D, 10 (Hydrarchos).
Lankester, E. R. 1905 A, 76.
Leche, W. 1900 A, 1028.
Lönnberg, E. 1910 B, 243.
1911 A, 67 (Basilosaurus, Zeuglodon).
Lucas, F. A. 1901 C, 619 (Basilosaurus).
1904 B, 436.
1904 D, 102 (Basilosaurus).
1906 D, 317 (Alabamornis).
1908 A, 311 (Alabamornis).
1910 B, 278.
Lydekker, R. 1892 C, 559.
1903 D, 124.
1907 E, 679.
1914 A, 637.
McIntosh, — 1911 A, 100.
Mantell, G. A. 1844 A, 827 (Basilosaurus).
1848 C (Basilosaurus).
Matthew, W. D. 1912 A, 160.
Miller, G. S. 1923 A, 3.

Nopcsa, F. 1923 B, 357.
1926 A, 638.
Osborn, H. F. 1907 G, 16, 191, fig. 194.
1907 K, 819, 830.
1909 D, 20.
1910 B, 561, 635.
1917 B, 200, 241, 242.
Owen, R. 1868 A, 914.
Palmer, T. S. 1904 A, 133, 791 (Basilosaurus).
Paquier, A. 1894 A, 18 (Zeuglodon).
Perrier, E. 1920 A, 152, 229, 348 (Zeuglodon).
Pictet, F. J. 1853 A, 376 (Zeuglodon).
Pompeckj, J. F. 1922 A, 44-100.
1925 A, 13.
Reche, O. 1905 B, 185.
Reichenbach, H. G. L. 1847 A, 13 (Basilosaurus).
Reynolds, S. H. 1897 A, 559.
Ryder, J. 1887 B, 430.
Schlosser, M. 1899 I, 346.
Schmidt, O. 1886 A, 251.
Seeley, H. G. 1876 D, 428.
1878 A, 223.
Smith, G. E. 1903 A, 322, figs. 1, 2.
1903 B, 41, pls. i, ii; text-fig. 2.
Stromer, E. 1902 C, 345, fig.
1903 B, 36, fig.
1903 D, 66.
1906 A, 208.
1908 A, pl. i, fig. 1.
1908 B.
1915 A, 134, 135.
1923 A, 258.
Thompson, D. W. 1889 A, 226, figs. 1-7, 10.
Trouessart, E. L. 1905 A, 753.
True, F. W. 1908 B, 386.
1908 C, 67.
1912 D, 199.
1912 E, 779.
Wallace, A. R. 1876 A, II, 210.
Weber, M. 1886 A.
1904 A, 554, 555, 557, 581.
Weber and Abel 1928 A, 396, fig. 244.
Williston, S. W. 1902 L, 918 (Basilosaurus, Zeuglodon).
Wiman, C. 1905 A, 248.
Winge, H. 1919 A, 68, 72, 103.
Winge and Miller 1921 A, 10, 14, 56, 62, 81.
Woodward, A. S. 1898 D, 330.
1923 A, 33.
Woodward, H. 1904 B, 154.
Wyman, J. 1848 A, 152.
Zigno, A. de 1876 A, 17.
Zittel and Schlosser 1911 A, 406.
1923 A, 488, fig. 612.

Basilosaurus brachyspondylus (Müller).

Hay, O. P. 1902 A, 586.
Abel, O. 1901 A, 8 (Zeuglodon).
1913 C, 203, 204 (Zeuglodon).
Fraas, E. 1904 A, 19 (Zeuglodon).
1905 B, 385 (Zeuglodon).
Pompeckj, J. F. 1922 A, 45.
Seeley, H. G. 1876 D, 432.
Sellards, E. H. 1915 D, 33, 84.
1916 B, 81.
Stromer, E. 1908 B, 136, pl. v, fig. 27 (This species?).
Trouessart, E. L. 1905 A, 753.
Upper Eocene (Jackson); Alabama: (Ocala); Florida.

Basilosaurus cetoides (Owen).

Hay, O. P. 1902 A, 587.
Abel, O. 1901 A, 17, 24 (Zeuglodon).
1901 B, 303, pl. xxi; text-figs. 19-22 (Zeuglodon).
1906 B, 450 (Zeuglodon); 458, figs. 3, 4 (Alabamornis gigantea).
1913 C, 203, 204 (Zeuglodon).
Beddard, F. E. 1900 A, 311 (Zeuglodon).
Buckley, S. B. 1866 A, 44 ("Zeuglodon").
Carus, C. G. 1847 A, 5-8, pls. i-vii (Hydrarchus harlani).
Conrad, T. A. 1832 A, 35.
1842 A, 178 ("Zeuglodon or Basilosaurus").
Cope, E. D. 1891 N, 69, fig. 38 (Zeuglodon).
Dall and Harris 1892 A, 105 ("Zeuglodon?").
Fraas, E. 1904 A, 4 (B. macrospondylus); 8 (Zeuglodon cetoides).
Geinitz, H. B. 1847 B, 1 (Hydrarchos harlani).
Gidley, J. W. 1909 B, 519.
1913 A, 649, pls. lxxxi, lxxxii; text-figs. 1-3.
Günther, A. C. 1847 A, 9 (Hydrarchus).
Harris, G. D. 1899 A, 17, 19, 32, 92 ("Basilosaurus," Zeuglodon).
Hopkins, F. V. 1870 A, 10 ("Zeuglodon"); 99 (Z. macrospondylus).
Kellogg, R. 1924 C, 758 (Zeuglodon).
1928 A, 40.
Koch, A. 1845 C, 2 (Hydrargos sillimanii).
1845 D, 1 (Hydrargos harlani).
Lambrecht, K. 1921 A, 43 (Alabamornis gigantea).
Lapham, I. A. 1895 A, 653 ("zeuglodon").
Lönnberg, E. 1910 B, 243.
1911 A, 67.
Lucas, F. A. 1901 J, 58, 60, figs. 11, 12.
1906 D, 317 (Alabamornis gigantea).
1908 A, 311 (Alabamornis gigantea).
Lyell, C. 1855 A, I, 101 ("Zeuglodon"); II, 8, 75 (Zeuglodon).
Mantell, G. A. 1844 A, 826, fig. 152 (Zeuglodon).
Merrill, G. P. 1907 A, 24.
Osborn, H. F. 1910 B, 171, fig. 70 (Zeuglodon).
Palacký, J. 1902 C, 251 (Zeuglodon).
Reichenbach, H. G. L. 1847 A, 13 (B. cetoides, B. kochii).
Ruschenberger and Tryon 1879 A, 14 (Zeuglodon).
Schlosser, M. 1899 E, 166 (Zeuglodon).
Sellards, E. H. 1916 B, 81.
Shufeldt, R. W. 1889 D, 15, fig.
Smith, E. A. 1894 A, 626 (Zeuglodon).
Steinmann, G. 1908 A, 251, fig. 160 (Zeuglodon).
Stromer, E. 1908 B, 165 (Zeuglodon).
1915 A, 134 (Zeuglodon).
1921 A, 54, fig. 5 (Zeuglodon).
Trouessart, E. L. 1905 A, 753.
True, F. W. 1908 C, 67.
1912 D, 198 (Zeuglodon).
Underhill, B. M. 1910 A, 77 ("Zeuglodon").
Veatch, A. C. 1902 B, 131 ("Zeuglodon").
1902 C, 164.
1906 A, pl. xxi.

Weber and Abel 1928 A, 399, fig. 246 (Zeuglodon).

Winge and Miller 1921 A, 62 (Zeuglodon).
  Upper Eocene (Jackson); Alabama, Louisiana: (Ocala); Florida.

Pontobasileus Leidy. Type *P. tuberculatus* Leidy.

Hay, O. P. 1902 A, 588.
Palmer, T. S. 1904 A, 557, 791.
Stromer, E. 1903 D, 88.
Trouessart, E. L. 1905 A, 754.

Pontobasileus tuberculatus Leidy.

Hay, O. P. 1902 A, 588.
  Eocene? or Miocene?; Alabama?.

Suborder Mysticete Flower.

Unless otherwise stated the following authors employed the name Mystacoceti.

Flower, W. H. 1864 A, 388 (Mysticete).
Hay, O. P. 1902 A, 598 (Mysticete).
Abel, O. 1902 B, 517 ("bartenwale").
  1905 C, 375 ("bartenwale").
  1912 F, 194, 470.
  1913 B, 719, 721.
  1913 C, 155 ("bartenwale"); 197 (Mystacoceti).
  1914 A, 81, 89.
  1914 C, 390 ("bartenwale").
  1914 D, 30.
  1920 A, 424.
Allen, G. M. 1916 A, 110.
Anderson, R. J. 1912 D, 253 (Mystococeti).
Andrews, C. W. 1908 B, 209.
Anthony, R. 1912 A ("mysticète").
Arldt, T. 1907 D, 82, 144.
Beddard, F. E. 1900 A, 317.
  1902 A, 353.
Case, E. C. 1904 D, 33 (Mysticoceti).
Cope, E. D. 1891 N, 69 (Mysticeti).
Cuvier, G. 1825 A, v, pt. 1, 359-396, pls. xxv-xxvii ("baleines").
Fraas, E. 1905 B, 381.
Guérin, R. 1874 A, 63 ("mysticètes").
Guldberg, G. 1904 A, 371 ("bartenwale").
Hanke, H. 1914 A, 487 ("bartenwale").
Hepburn, D. 1901 A, 681.
Hoernes, R. 1886 A, 700 (Mysticete).
  1912 A, 661.
Houssay, F. 1910 A, 17 ("mysticètes").
Howes, G. B. 1903 A, 329.
Jaekel, O. 1903 C, 40 ("bartenwale").
  1908 B, 464 ("mystacoceten").
  1911 A, 232.
Kellogg, R. 1924 A, 11.
  1928 A, 29, 37, 181, 191 (Mysticeti).
Kükenthal, W. 1908 A, 611 ("bartenwale").
  1908 C, 245 ("bartenwale").
  1909 B, 8 ("bartenwale").
  1914 B, 2 ("bartenwale").
  1913 A, 682.
Kunze, A. 1912 A, 613 ("bartenwale").
Larger, R. 1913 A, 721 ("mysticètes").
Leunis and Ludwig 1883 A, 281.
Lillie, D. G. 1910 A, 781 (Mystacocete).
Lockington, W. N. 1884 A, 195 (Balænoidea).
Lönnberg, E. 1924 A, 1.
Lydekker, R. 1901 B, 653 ("whalebone whales").
  1909 D, 11.
Miller, G. S. 1923 A, 14, 40 (Mysticeti).
Osborn, H. F. 1902 E, 365, fig. 1.
  1907 H, 613 (Mysticete).
  1925 B, 18.
Osburn, R. C. 1903 A, 653.
Parker and Haswell 1897 A, 451.
Reche, O. 1905 B, 150 (Mysticeta).
Rehs, J. 1914 A, 41.
Reynolds, S. H. 1897 A, 547 (Mystacoceti, Balænoidea).
Rogenhofer, A. 1908 A, (42) ("bartenwale").
Smith, G. E. 1903 A, 326.
  1903 B, 46.
Steinmann, G. 1907 A, 468.
  1908 A, 237, 240.
  1912 B, 721.
Sterling, S. 1910 B, 231 (Mysticeti).
  1910 C, 667 ("bartenwale").
Stromer, E. 1903 B, 37 (Mysticeti).
  1908 B, 160 (Mysticeti).
  1912 A, 185 (Mysticeti).
Terra, P. 1911 A, 344.
Thomas, O. 1888 A, 458 ("mystacocetes").
Van Beneden, P. J. 1880 A, 49 ("mysticètes").
  1885 A, 10 ("mystacocètes").
Weber, M. 1886 A (Mystacocete).
  1904 A, 574, 576, 583.
Weber and Abel 1928 A, 389, 390, 409.
Weber and Burlet 1927 A, xv.
Winge, H. 1919 A, 68, 73.
Winge and Miller 1921 A, 10, 16, 50.
Woodward, M. F. 1894 B, 443.
Ziegler, H. E. 1901 A, 237 ("bartenwale").
Zittel and Schlosser 1911 A, 409.
  1923 A, 492.

CETOTHERIIDÆ Miller.

Miller, G. S. 1923 A, 21, 24, 40.
Kellogg, R. 1928 A, 35, 181, 185.

Mesocetus Van Beneden. Type *M. longirostris* Van Beneden.

Hay, O. P. 1902 A, 600.
Cabrera, A. 1926 B, 369.
Kellogg, R. 1924 C, 763.
  1925 D, 7.
Winge, H. 1910 A, 24.

Mesocetus siphunculus Cope.

Hay, O. P. 1902 A, 600.
Clark and Miller 1912 A, 167, 168.
Winge, H. 1910 A, 24.
  Upper Miocene; Virginia.

SIPHONOCETUS Cope. Type *Balæna priscus* Leidy.

Hay, O. P. 1902 A, 599.
Case, E. C. 1904 D, 49.
Kellogg, R. 1928 A, 35.
Palmer, T. S. 1904 A. 633, 791.
Trouessart, E. L. 1905 A, 780.
True, F. W. 1912 A, 5.
  1912 E, 780.
Winge, H. 1910 A, 25.

Siphonocetus clarkianus Cope.

Hay, O. P. 1902 A, 599.
Case, E. C. 1904 D, 47, pl. xxv, fig. 4.
Shattuck, G. B. 1904 A, xciv.
  Upper Miocene (St. Mary's); Maryland.

Siphonocetus expansus Cope.

Hay, O. P. 1902 A, 599.
Case, E. C. 1904 D, 45, pl. xxv, fig. 3.
Clark and Miller 1912 A, 167, 168.
Shattuck, G. B. 1904 A, xciv.
  Upper Miocene (St. Mary's?); Maryland.

Siphonocetus priscus (Leidy).

Hay, O. P. 1902 A, 599.
Case, E. C. 1904 D, 46, pl. xxv, fig. 5.
Clark and Miller 1912 A, 167, 168.
Dall and Harris 1892 A, 56 (Balæna).
Shattuck, G. B. 1904 A, xciv.
Van Beneden, P. J. 1880 A, 31 (Balaena).
  Upper Miocene (St. Mary's); Virginia.

PARIETOBALÆNA Kellogg. Type *P. palmeri* Kellogg.

Kellogg, R. 1924 A, 1.
Cabrera, A. 1926 B, 370.
Kellogg, R. 1928 A, 35, 188.

Parietobalæna palmeri Kellogg.

Kellogg, R. 1924 A, 2, pls. i-iv.
  1928 A, 188, fig. 18.
  Upper Miocene (Calvert); Maryland.

PLESIOCETOPSIS Brandt. Type *P. hupschii* Van Beneden.

Brandt, J. F. 1873 A, 143-148.
Hay, O. P. 1902 A, 598 (Cetotherium, in part).
Abel, O. 1913 C, 178 (Plesiocetus).
Kellogg, R. 1925 B, 36, 51 (Plesiocetus).
  1928 A, 35 (Plesiocetus).
Palmer, T. S. 1904 A, 548 (Plesiocetus, Plesiocetopsis).
Van Beneden, P. J. 1859 A, 139 (Plesiocetus).
Weber, M. 1904 A, 584 (Plesiocetus).

Plesiocetopsis megalophysum (Cope).

Andrews, R. C. 1914 A, 290 (Plesiocetus).
Hay, O. P. 1902 A, 599 (Cetotherium).
Case, E. C. 1904 D, 41, pl. xx, fig. 1 (Cetotherium).
Kellogg, R. 1925 B, 51 (Plesiocetus).
Shattuck, G. B. 1904 A, xciv (Cetotherium).
Winge, H. 1910 A, 28 (Cetotherium).
  Upper Miocene (Calvert); Maryland.

Plesiocetopsis occidentalis Kellogg.

Kellogg, R. 1925 B, 50, figs. 7-10.
  Upper Miocene; California.

CETOTHERIUM Brandt. Type *C. rathkii* Brandt.

Hay, O. P. 1902 A, 598.
Abel, O. 1913 C, 181, 213, pl. viii.
  1914 A, 91, fig. 53.
  1919 A, 761, fig. 570.
Arldt, T. 1907 D, 644.
Brandt, J. F. 1871 A, 563.
Cabrera, A. 1926 B, 369.
Case, E. C. 1904 D, 36.
Heilprin, A. 1887 A, 345.
Kellogg, R. 1924 A, 5, 12.
  1924 C, 764 ("cetotheres").
  1928 A, 35, 184, 187, 188, fig. 17.
Lönnberg, E. 1911 A, 80.
Lydekker, R. 1894 B, 124.
Miller, G. S. 1923 A, 5, 18, pl. viii, fig. 2.
Newton, E. T. 1891 A, 63.
Palmer, T. S. 1904 A, 175, 790.
Pictet, F. J. 1853 A, 388.
Strobel, P. 1875 A, 133.
Taschenberg, O. 1899 A, 4568 (Eschrichtius).
Trouessart, E. L. 1905 A, 779.
True, F. W. 1912 A, 5.
Van Beneden, P. J. 1880 A, 31 (Eschrichtius).
  1885 A, 6.
  1886 B, 281.
Weber and Abel 1928 A, 409.
Winge, H. 1910 A, 10.
Winge and Miller 1921 A, 22.
Zittel and Schlosser 1911 A, 410.
  1923 A, 493.

Cetotherium cephalum Cope.

Hay, O. P. 1902 A, 599.
Case, E. C. 1904 D, 44; pl. xxi, fig. 1; pl. xxii, figs. 1, 2; pl. xxiii, fig. 1; pl. xxv, figs. 8, 13.
Cope, E. D. 1891 N, 64, fig. 37.
Ruschenberger and Tryon 1879 A, 92 (Eschrichtius cephalus).
Shattuck, G. B. 1904 A, xciv.
  Upper Miocene (Calvert); Maryland.

Cetotherium davidsonii Cope.

Hay, O. P. 1902 A, 599.
  1927 D, 194 (Eschrichtius).
Kellogg, R. 1922 A, 61 (Escrichtius davidsoni).
  1922 D, 1 (Eschrichtius).
  1925 B, 35, 41 (Eschrichitus).
  Pleistocene; California.

Cetotherium furlongi Kellogg.

Kellogg, R. 1925 B, 38, figs. 1, 6.
  1928 A, 188, fig. 18.
  Middle Miocene (Temblor); California.

Cetotherium leptocentrum Cope.

Hay, O. P. 1902 A, 599.
Clark and Miller 1912 A, 167, 168.
Miocene; Virginia.

Cetotherium parvum Trouessart.

Hay, O. P. 1902 A, 599.
Case, E. C. 1904 D, 44, pl. xxv, fig. 1.
Shattuck, G. B. 1904 A, xciv.
Upper Miocene (St. Mary's?); Maryland.

METOPOCETUS Cope. Type *M. durinasus* Cope.

Hay, O. P. 1902 A, 598.
Cabrera, A. 1926 B, 369.
Case, E. C. 1904 D, 35, 36.
Kellogg, R. 1928 A, 35.
Schlosser, M. 1899 N, 147.
True, F. W. 1912 A, 5, 7.
1912 E, 780.
Winge, H. 1910 A, 27.

Metopocetus durinasus Cope.

Hay, O. P. 1902 A, 598.
Case, E. C. 1904 D, 36, pl. xviii, figs. 1, 2.
Kellogg, R. 1924 A, 8.
Schlosser, M. 1899 N, 147.
Shattuck, G. B. 1904 A, xciv.
Winge, H. 1910 A, 28.
Upper Miocene (Calvert); Maryland.

CEPHALOTROPIS Cope. Type *C. coronatus* Cope.

Hay, O. P. 1902 A, 598 (Cephalotropus).
Case, E. C. 1904 D, 36, 38.
Kellogg, R. 1928 A, 35.
Palmer, T. S. 1904 A, 170, 789.
True, F. W. 1912 A, 5, 7.
1912 E, 780.
Schlosser, M. 1899 N, 147.
Winge, H. 1910 A, 28.

Cephalotropis coronatus Cope.

Hay, O. P. 1902 A, 598 (Cephalotropus).
Case, E. C. 1904 D, 39, pl. xix, fig. 1.
Kellogg, R. 1928 A, 188.
Schlosser, M. 1899 N, 147.
Shattuck, G. B. 1904 A, xciv.
Winge, H. 1910 A, 28.
Upper Miocene (Chesapeake group); Maryland?

ULIAS Cope. Type *U. moratus* Cope.

Hay, O. P. 1902 A, 599.
Case, E. C. 1904 D, 49.
Kellogg, R. 1928 A, 35.
Palmer, T. S. 1904 A, 700, 791.
True, F. W. 1912 A, 5, 6.
1912 E, 780.
Winge, H. 1910 A, 26.

Ulias moratus Cope.

Hay, O. P. 1902 A, 599.
Case, E. C. 1904 D, 50, pl. xxiv, fig. 1; pl. xxv, fig. 6.
Shattuck, G. B. 1904 A, xciv.
Upper Miocene (Chesapeake); Maryland or Virginia.

TRETULIAS Cope. Type *T. buccatus* Cope.

Hay, O. P. 1902 A, 600.
Case, E. C. 1904 D, 52.
Kellogg, R. 1928 A, 35.
Palmer, T. S. 1904 A, 687, 791.
True, F. W. 1912 A, 5, 6.
1912 E, 780.
Winge, H. 1910 A, 27, 29.

Tretulias buccatus Cope.

Hay, O. P. 1902 A, 600.
Case, E. C. 1904 D, 53, pl. xxv, fig. 2.
Shattuck, G. B. 1904 A, xciv.
Winge, H. 1910 A, 29.
Miocene (Chesapeake); Maryland or Virginia.

RHEGNOPSIS Cope. Type *Balæna palæatlanticus* Leidy.

Hay, O. P. 1902 A, 600.
Kellogg, R. 1928 A, 35.
True, F. W. 1912 A, 7.
1912 E, 780.
Winge, H. 1910 A, 28.

Rhegnopsis palæatlanticus (Leidy).

Hay, O. P. 1902 A, 600.
Clark and Miller 1912 A, 167, 168.
Ruschenberger and Tryon 1879 A, 14.
Van Beneden, P. J. 1880 A, 31 (Balæna).
Miocene (St. Mary's); Virginia.

Superfamily BALÆNOIDÆ, new form.

Turner, W. 1870 B, 276 (Balænoidea).
Turner, W. 1871 A, 359 (Balænoidea).

BALÆNOPTERIDÆ Gray.

Abel, O. 1901 B, 311 ("balænopteriden").
1912 F, 662 ("balænopteriden").
1913 B, 722.
1913 C, 213.
1914 A, 91.
1919 A, 759.
Allen, G. M. 1916 A, 110.
Arldt, T. 1907 D, 641.
Beddard, F. E. 1900 A, 144, 313.
1902 A, 355.
Cabrera, A. 1926 A.
Carus, V. 1875 A, 172 (Balænopterida).

Kampfen, P. N. 1905 A, 649.
Kellogg, R. 1928 A, 35, 190.
Leunis and Ludwig 1883 A, 282.
Lockington, W. N. 1884 A, 195.
Miller, G. S. 1923 A, 22, 40.
    1924 B, 9.
Reche, O. 1905 B, 153.
Rehs, J. 1914 A, 41.
Turner, W. 1871 A, 348.
Van Beneden, P. J. 1885 A, 10 ("balænoptères").
    1888 A, 1-145 ("balénoptères").
Wallace, A. R. 1876 A, II, 207.
Weber, M. 1904 A, 575 (Balænopteridæ); 576 (Balæonopterinæ).
Weber and Abel 1928 A, 389 (table), 390, 391.
Zittel and Schlosser 1911 A, 409.
    1923 A, 492.

BALÆNOPTERINÆ Flower.

Flower, W. H. 1867 A, 115.
Miller, G. S. 1923 A, 22, 40.
Trouessart, E. L. 1905 A, 779.
Van Beneden, P. J. 1882 A, 4.
Winge, H. 1919 A, 68, 77 (Balænopterini).
Winge and Miller 1921 A, 20, 22 (Balænopterini).

BALÆNOPTERA Lacépède. Type *B. acutorostrata* Lacépède.

Hay, O. P. 1902 A, 600.
Abel, O. 1901 B, 311.
    1902 A, 183.
    1902 B, 517.
    1907 G, 33, fig. 26.
    1908 A, 474, fig. 1.
    1908 B, 148, 170.
    1909 A, 248.
    1909 D, 224.
    1912 F, 194, 458, 662, fig. 346.
    1913 C, 162, 178, 212.
    1919 A, 756.
    1921 A, 299, fig. 115.
    1923 B, 271.
Ahrens, H. 1912 B, 49.
Allen, G. M. 1916 A, 110.
Anderson, J. 1879 A, 551, pl. xliv; text-fig. 21-28.
Andrews, R. C. 1916 A, pls. xxix-xlii; text-figs. 1-38.
Anthony, R. 1912 A ("rorqual").
Augustine, W. 1913 A, 537.
Beddard, F. E. 1900 A, 145, 312, figs. 2, 10, 17, 18, 20, 22.
    1901 A, 93.
    1902 A, 355.
    1919 A, 131.
Bertelli, D. 1909 A, 158.
Boas, J. E. V. 1914 A, 380.
Bonsdorff, E. J. 1871 A, 318.
Bouvier, L. E. 1889 A, 232.
Braun, M. 1908 A, 407.
Bronn, H. G. 1848 A, 145.
    1849 A, 701.
Burlet, H. M. 1914 A, 119.
    1916 A, 1, figs. 1, 2.
    1917 A, 376, figs. 2-16.
Cabrera, A. 1926 B.
Cuvier, G. 1825 A, v, pt. 1, 370-387, pl. xxvi, figs. 1-6 ("rorqual").
Doran, A. H. G. 1878 A, 453, pl. lxii.
Elliot, D. G. 1901 A, 11.
Eschricht, D. F. 1849 A, 7, pls. (Ogmobalæna).
Giebel, C. G. 1883 A, pls. xxxix, xl.
Gray, J. E. 1846 A, 18, 48, pl. ii.
    1863 A, 199.
    1870 A, 195.
Gregory, W. K. 1920 A, 160.
Guérin, R. 1874 A, 64.
Guldberg, G. 1904 A, 380, 391.
Hanke, H. 1914 A, 488.
Hepburn, D. 1901 A, 681.
Howes, G. B. 1894 A, 79.
Kampfen, P. N. 1905 A, 648.
Kellogg, R. 1928 A, 35, 43, 190, figs. 2, 20.
Klaauw, C. J. 1924 B, 600.
Köstlin, O. 1844 A.
Kükenthal, W. 1891 C, 380.
    1900 A, 211, figs. 3-6.
    1908 A, 611.
    1914 B, 63.
    1922 A, 59.
Kunze, A. 1912 A, 619.
Leboucq, H. 1889 A, 574.
Leche, W. 1887 A.
    1900 A, 1027, fig. 110.
Le Damany, P. 1906 A, 64 ("baleinoptère").
Leunis and Ludwig 1883 A, 283.
Lillie, D. G. 1910 A, 775, 783, fig. 71.
Lockington, W. N. 1884 A, 200.
Lönnberg, E. 1910 B, 231.
    1911 A, 40.
    1911 D, 7, figs. 6, 7.
    1924 A, 1.
Lydekker, R. 1887 B, 11.
    1909 D, 21, figs. 4, 6, 7.
M'Intosh, — 1917 A, 39.
Matthes, E. 1921 C.
Miller, G. S. 1923 A, 5, 19, 22, pl. i, fig. 2; pl. iii, fig. 3; pl. iv, fig. 3; pl. vi, fig. 3; pl. viii, figs. 4-6.
    1924 C, 505.
Newton, E. T. 1886 B, 320.
Osborn, H. F. 1917 B, 234, fig.
Osburn, R. C. 1906 A, pl. ix, figs. 33, 34.
Owen, R. 1866 B, 426, figs. 288, 289.
    1868 A, 866.
Palacký, J. 1902 C, 262.
Palmer, T. S. 1904 A, 132, 789.
Perrin, J. B. 1870 A, 805.
Pompeckj, J. F. 1910 A, 134.
    1922 A, 49-100.
Pouchet and Chabry 1884 A, 182.
Pütter, A. 1923 A, 223.
Reche, O. 1905 B, 153, 204, 241, figs. 5-8, 28-30.
Rehs, J. 1914 A, 41.
Reynolds, S. H. 1897 A, 533, fig. 87.
Ridewood, W. G. 1922 A, 209, figs. 12-16.
Rosenthal, F. C. 1832 A, 127 (Balæna).
Ryder, J. 1887 B, 462, 481, pl. iii.
Schulte, H. W. 1916 A, pls. xliii-lvii.
Sclater, P. L. 1897 A, 352.
Seeley, H. G. 1881 A, 790, figs. 1-3.

Steinmann, G. 1909 A, 82, figs. 14, 17.
Sterling, S. 1910 A, 190, fig. 6.
1910 B, 231.
1910 C, 669.
Stromer, E. 1908 B, 163.
1915 A, 133.
Struthers, J. 1894 A, 684.
Taschenberg, O. 1899 A, 4472.
Trouessart, E. L. 1903 A, 306.
1905 A, 782.
True, F. W. 1904 A, 320.
1912 A, 3.
Turner, W. 1870 B, 271, figs. 1-4.
1871 A, 349.
1871 B, 361.
1882 B, 471.
Van Bambeke, C. 1868 A, 55, figs. (Pterobalæna).
Van Beneden, P. J. 1836 A, 159 ("rorqual").
1836 B, 318 ("rorqual").
1880 A, 42.
1888 A, 5.
Weber, M. 1886 A.
1904 A, 573, 575, 576.
Weber and Abel 1928 A, 367, 372, 391, figs. 229, 230, 380, 381.
Weber and Burlet 1927 A, 143.
Wilder, B. 1872 B, 316.
Winge, H. 1919 A, 68.
Winge and Miller 1921 A, 10, 45, 73, 74.
Ziegler, H. E. 1901 A, 238, fig. 3.

Balænoptera polyporum (Cope).

Hay, O. P. 1902 A, 599 (Cetotherium).
Miocene; North Carolina.

Balænoptera ryani Hanna and McLellan.

Hanna and McLellan 1924 A, 237, pls. v-ix.
Kellogg, R. 1925 B, 71.
1928 A, 190.
Miocene (Monterey); California.

Balænoptera sursiplana Cope.

Hay, O. P. 1902 A, 600.
Allen, G. M. 1916 A, 282, pl. xv (This species?).
Case, E. C. 1904 D, 54, pl. xxiv, fig. 2.
Shattuck, G. B. 1904 A, xciv.
Miocene (Chesapeake); Maryland or Virginia, Massachusetts.

Balænoptera sp. indet.

Hay, O. P. 1923 A, 19, 159. Pleistocene; Quebec, Florida.
Sellards, E. H. 1916 B, 105 (This genus?). Pleistocene; Daytona, Florida.

MEGAPTERA Gray. Type *M. nodosa* Bonaterre.

Gray, J. E. 1846 B, 83.
Hay, O. P. 1902 A, 600.
Abel, O. 1907 G, 4, fig. 3.
1908 A, 475, fig. 3.
1908 B, 167.
1912 F, 684.
1913 C, 162, 178.
Allen, G. M. 1916 A, 110.
Augustin, W. 1913 A, 566.
Beddard, F. E. 1900 A, 161, 317, fig. 10.
1902 A, 356.
1919 A, 131, 139.
Braun, M. 1908 A, 400.
Cuvier, F. 1836 A, 303 (Rorqualus).
Doran, A. H. G. 1878 A, 455, pl. lxii.
Elliott, D. G. 1901 A, 9.
Eschricht, D. F. 1849 A, 56, 146 (Kyphobalæna).
1869 A, 8, pls. iii, iv.
Gray, J. E. 1846 A, 16.
1863 A, 199.
1870 A, 195.
1870 B, 391.
Guérin, R. 1874 A, 63.
Guldberg, G. 1904 A, 371.
Heilprin, A. 1887 A, 341.
Honigmann, H. 1915 A, 113, figs. 1-3.
Kellogg, R. 1922 D, 2.
1924 A, 8.
1928 A, 35, 190, 191.
Kükenthal, W. 1914 B, 2.
Kunze, A. 1912 A, 613, figs. P-T.
Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 282.
Lockington, W. N. 1884 A, 196.
Lönnberg, E. 1910 B, 232.
1911 A, 40.
Lydekker, R. 1887 B, 11.
Lydekker, R. 1909 D, 12.
Matthes, E. 1921 C, 245.
Miller, G. S. 1923 A, 19.
1924 B, 9.
Newton, E. T. 1886 B, 320.
Osburn, R. C. 1906 A, 455.
Palacký, J. 1902 C, 262.
Palmer, T. S. 1904 A, 406, 790.
Ridewood, W. G. 1922 A, 209.
Ryder, J. 1887 B.
Sclater, P. L. 1897 A, 352.
Struthers, J. 1894 A, 684.
1895 A, 153.
Trouessart, E. L. 1905 A, 785.
True, F. W. 1904 A, 327.
Turner, W. 1871 A, 352.
1880 A, 30.
Van Beneden, P. J. 1882 A, 26.
1888 A, 12.
Weber, M. 1886 A.
1904 A, 575, 576.
Weber and Abel 1928 A, 389 (table), 391.
Weber and Burlet 1927 A, 243.
Wilder, B. 1875 A, 107.
Winge, H. 1919 A, 68.
Winge and Miller 1921 A, 10, 21, 45, 74.

Megaptera brachychira "Cope."

Ruschenberger and Tryon 1879 A, 14 (No description).
Cetacean bones said to have come from the Miocene of Maryland.

Megaptera miocæna Kellogg.

Kellogg, R. 1922 D, 3, pls. i-iv; text-figs. 1, 3, 5-10.
1924 A, 9.

Kellogg, R. 1925 B, 72, foot-note.
1928 A, 190.
Upper Miocene (Lompoc); California.

Megaptera mysticetoides (Emmons).

Hay, O. P. 1902 A, 599 (Cetotherium).
Miocene; North Carolina.

Megaptera nodosa (Bonnaterre).

Bonnaterre, J. 1789, Tableau Encyclop. Cétol., 5 (Balæna).
Hay, O. P. 1902 A, 600 (M. boöps; not of Linnæus, *fide* True).
Abel, O. 1908 B, 167, figs. 38-41 (M. boöps).
1912 F, 179, fig. 124 (M. boöps).
Allen, G. M. 1916 A, 288, pl. xi, fig. 5; pl. xvi.
Andrews, R. C. 1921 A, 1, figs. 1-4.
Billings, E. 1856 A, 345 ("whale").
Brown, R. 1868 A, 548 (M. longimana).
Burlet, H. M. 1917 A, 381 (M. longimana).
Coleman, A. P. 1901 B, 133 (M. longimana).
1901 C, 217, 224 (M. longimana).
Cuvier, F. 1836 A, 321, 386, pl. xx (Rorqualus boöps).
Dawson, J. W. 1894 C, 31, 203, 268 (M. longimana).
Fischer, J. B. 1829 A, 524 (Balæna boöps).
Gray, J. E. 1846 A, 18 (Balænoptera physalus); 51 (B. boöps).
1868 C, 247 (Balæna).
Guldberg, G. 1904 A, 371 (M. boöps).
Hay, O. P. 1923 A, 490 (M. boöps).
Kellogg, R. 1922 D, 3, text-figs. 2, 4.
1928 A, 193, 204, figs. 19, 24.
Kükenthal, W. 1900 A, 217, fig. 7 (M. boöps).
Lambe, L. M. 1904 C, 30, 39, 50 (M. boöps).
1912 A, 14 (M. boöps).
Lockington, W. N. 1884 A, 196, fig. (M. longimana).
Lydekker, R. 1909 D, 15, fig. 8 (M. boöps).
Miller, G. S. 1924 B, 10.
1924 C, 506.
Palacký, J. 1902 C, 264 [Balænoptera (M. boöps)].
Pander and Alton 1827 A, 6, pls. iii, iv.
Perkins, G. H. 1908 A, 83 (M. longimana).
1910 A, 157 (M. longimana).
Ridewood, W. G. 1922 A, 214, figs. 1-11.
Rudolphi, C. A. 1832 A, 133, pls. i-v (Balæna longimana).
Ryder, J. 1887 B, 460, 481, pl. iii (M. longimana).
Struthers, J. 1885 C, 766 (M. longimana).
Taylor, F. B. 1915 A, 333 ("whale").
Trouessart, E. L. 1905 A, 785.
True, F. W. 1904 A, 211, pls. xxix-xxxiii; pls. xxxvi-xli; text-figs. 68-83.
Turner, W. 1871 A, 349 (Balænoptera boöps).
Van Beneden, P. J. 1880 A, 32 (M. boöps).
1882 A, 35, 50 (M. boöps).
Recent; North Atlantic: Pleistocene (Champlain); Ontario: Pleistocene?; Louisiana.

Megaptera sp. indet.

Dall, W. H. 1909 A, 17 (This genus?). Miocene (Coos Bay); Oregon.
Van Beneden and Gervais 1880 A, 265. Recent?.

MESOTERAS Cope. Type *M. kerrianus* Cope.

Hay, O. P. 1902 A, 600.
Kellogg, R. 1928 A, 35.
Palmer, T. S. 1904 A, 416, 790.
True, F. W. 1912 E, 780.
Winge, H. 1910 A, 19.

Mesoteras kerrianus Cope.

Hay, O. P. 1902 A, 600.
Emmons, E. 1852 A, 99 ("whale").
Harlan, R. 1834 B, 89 ("shark").
McLenahan, S. 1852 A, 71 ("whale").
Merrill, G. P. 1907 A, 48.
Miller and Stephenson 1912 A, 47, 54 ("whale").
Mitchell, S. L. 1818 A, 400 ("whale," "shark").
1826 A, 15 ("sea-serpent," "shark").
Palacký, J. 1902 C, 250.
Upper Miocene; North Carolina.

BALÆNIDÆ Gray.

Gray, J. E. 1825 B, 336.
Hay, O. P. 1902 A, 598.
Abel, O. 1907 G, 2 ("bartenwale").
1913 B, 722.
1914 A, 91.
1919 A, 762.
1921 A, 299 ("bartenwale").
Adloff, P. 1904 B, 55 ("bartenwale").
Allen, G. M. 1916 A, 110.
1921 B, 240.
Andrews, R. C. 1914 A, 289 ("baleen whales").
Arldt, T. 1907 D, 641.
Augustin, W. 1913 A, 533 ("bartenwale").
Beddard, F. E. 1900 A, 121, 312.
1901 A, 93 ("right whales").
1902 A, 358.
Bonaparte, C. L. 1832 A, 294 (Balænina; Balænidæ, in part; Physeteridæ, in part).
Braun, M. 1908 A, 406 ("bartenwale").
Cabrera, A. 1926 B.
Cahall, W. C. 1890 A, 231 ("whalebone whales").
Carus, V. 1875 A, 171 (Balænida).
Case, E. C. 1904 D, 34.
Cuvier, F. 1836 A, 303 ("baleines").
Durand, J. P. 1898 A, 293 ("baleines").
Eastman, C. R. 1906 E, 95.
Eimer, G. H. T. 1901 A, 159 ("bartenwale").
Elliot, D. G. 1901 A, 7.
Gervais, P. 1859 A, 312 ("balenidés").
Giebel, C. G. 1883 A ("bartenwale").
Gilbert, J. Z. 1908 A, 20.
Gray, J. E. 1821 A, 310 (Balanadæ).
1846 A, 15, 46.
1863 A, 198.
1868 C, 242.
1870 B, 391.
Guérin, R. 1874 A, 63.
Guldberg, G. 1903 A, 805.
Howes, G. B. 1894 A, 79.

Huxley, T. H. 1863 F, 634 (Balænoidea).
Kampfen, P. N. 1905 A, 649.
Kellogg, R. 1928 A, 35.
Köstlin, O. 1844 A ("balänen").
Kükenthal, W. 1891 C, 381 ("bartenwale").
  1894 B, 72 ("bartenwale").
Leche, W. 1887 A ("bartenwale").
  1900 A, 1027 ("bartenwale").
Leunis and Ludwig 1883 A, 281.
Lockington, W. N. 1884 A, 201.
Lydekker, R. 1887 B, 8.
Martins, C. 1857 A, 69, 91 ("baleines").
Meunier, S. 1903 A, 777 ("baleines").
Miller, G. S. 1923 A, 20, 40.
  1924 B, 9.
Mivart, St. G. 1879 B, 511 ("whales").
Owen, R. 1845 B, 345.
  1845 F, 38.
  1868 A, 866.
Palacký, J. 1902 C, 261 ("baläniden").
Pictet, F. J. 1853 A, 386 ("balénides").
Pompeckj, J. F. 1922 A, 84, 88 ("bartenwale").
Pouchet and Chabry 1884 A, 182 ("balénides").
Reche, O. 1905 B, 150, 204.
Steinmann, G. 1908 A, 242 ("bartenwale").
  1912 B, 724 ("bartenwale").
Taschenberg, O. 1899 A, 4470.
Trouessart, E. L. 1905 A, 779.
True, F. W. 1912 E, 779.
Van Beneden, P. J. 1880 A, 41, 50 ("baleines").
Wallace, A. R. 1876 A, II, 207.
Weber, M. 1904 A, 574 (Balænidæ); 576 (Balæninæ).
Weber and Abel 1928 A, 389 (table), 390.
Wilckens, O. 1911 A, 711 ("bartenwale").
Winge, H. 1919 A, 68, 73, 120.
Winge and Miller 1921 A, 10, 16, 21, 45, 59.
Zittel and Schlosser 1911 A, 410.
  1923 A, 493.

BALÆNINÆ Flower.

Flower, W. H. 1867 A, 115.
Trouessart, E. L. 1905 A, 786.
Winge, H. 1919 A, 79 (Balænini).
Winge and Miller 1921 A, 10, 18 (Balænini).

BALÆNA Linnæus. Type *B. mysticetus* Linnæus.

Hay, O. P. 1902 A, 601.
Abel, O. 1907 G, 33, fig. 25.
  1908 A, 474.
  1908 B, 156.
  1909 D, (225, 226).
  1912 F, 178, 661.
  1913 C, 178, 212.
  1923 B, 271.
Allen, G. M. 1916 A, 110.
Arldt, T. 1907 D, 641.
Augustin, W. 1913 A, 534.
Beddard, F. E. 1900 A, 122, 312, figs. 10, 19.
  1901 A, 93.
  1902 A, 358.
Bensley, B. A. 1902 A, 7.
Braun, M. 1908 A, 407.
Bronn, H. G. 1848 A, 145.
  1849 A, 701.
Burlet, H. M. 1917 A, 398, figs. 17-19.
Cabrera, A. 1926 B, fig. 2.
Carruccio, A. 1913 B, 178 ("balene").
Cuvier, F. 1836 A, 354, pls. xxi, xxii.
Cuvier, G. 1805 A.
Doran, A. H. G. 1878 A, 450, pl. lxii.
Elliot, D. G. 1901 A, 7.
Eschricht, D. F. 1869 A, 5, 10, pls. i, ii, v.
Fischer, J. B. 1829 A, 520.
Gervais, P. 1852 A, 159.
  1859 A, 312.
Giebel, C. G. 1855 A, 85.
  1883 A, pls. xxxix, lxvii, lxxiv.
Goodsir, J. 1868 A, 54.
Gray, J. E. 1846 A, 15, 47.
  1868 C, 242.
  1870 A, 194.
  1870 B, 391.
Gregory, W. K. 1920 A, 160.
Guérin, R. 1874 A, 63.
Huxley, T. H. 1863 F, 634, figs. 59-61.
Kampfen, P. N. 1905 A, 650.
Kehrer, F. A. 1896 A, fig. 33.
Kellogg, R. 1928 A, 35, 191.
Kingsley, J. S. 1925 A, 211, fig. 224.
Kükenthal, W. 1894 B, 72.
  1900 A, 203, fig. 1.
  1914 B, 73.
  1922 A, 59.
Laloy, L. 1907 A, 585 ("baleine").
Larger, R. 1913 A, 709 ("baleine").
Leche, W. 1887 A, pls. xciii, xcvii.
Le Damany, P. 1903 G, 131, 316, figs. 2, 11, 16 ("baleine").
Leunis and Ludwig 1883 A, 281.
Leydig, F. 1859 A, 670.
Lillie, D. G. 1910 A, 784.
Lönnberg, E. 1910 B, 230.
  1911 A, 37.
  1911 D, 1, figs. 1-5.
  1924 A, 1.
Lull, R. S. 1907 A, 477.
Lydekker, R. 1887 B, 10.
  1906 B, 391 ("whale").
  1909 D, 12, figs. 1-3.
Meckel, J. F. 1825 A.
Miller, G. S. 1923 A, 16, 21, pl. viii, fig. 9.
Newton, E. T. 1886 B, 320.
Osburn, R. C. 1906 A, 454.
Owen, R. 1843 D, 283.
  1845 B, 312, 314, pl. lxxvi, figs. 4-7.
  1845 F, 38.
  1848 B, 94.
  1866 B, 426, 428.
Palacký, J. 1902 C, 262.
Palmer, T. S. 1904 A, 131, 789.
Pander and Alton 1827 A, 3, pls. ii, iv.
Pictet, F. J. 1853 A, 387.
Pompeckj, J. F. 1922 A, 58, 84.
Pütter, A. 1923 A, 223.
Reche, O. 1905 B, 151, 238, figs. 1-3.
Rousseau, L. F. E. 1856 A, 19.
Ryder, J. 1887 B, pl. ii.
Sclater, P. L. 1897 A, 352.

Steinmann, G. 1908 A, 241, figs. 145, 146.
1909 A, 83, fig. 18.
Stromer, E. 1908 B, 164.
Struthers, J. 1894 A, 684.
Taschenberg, O. 1899 A, 4471.
Trouessart, E. L. 1905 A, 786.
True, F. W. 1904 A, 319.
Van Beneden, P. J. 1836 B, 318 ("baleines").
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, II, 207.
Weber, M. 1886 A.
1904 A, 555, 573, 574, 576, figs. 412, 416.
Weber and Abel 1928 A, 358, 390, figs. 218, 219, 221, 222.
Weber and Burlet 1927 A, 143.
Wilder, B. 1872 B, 316.
Winge, H. 1919 A, 68, 76, 79.
Winge and Miller 1921 A, 18, 45, 74.

Balæna affinis? Owen.

Hay, O. P. 1902 A, 601.
Case, E. C. 1904 D, 55.
Owen, R. 1843 D, 283, fig.
Shattuck, G. B. 1904 A, xciv.
Miocene (Chesapeake); Maryland or Virginia, North Carolina?, England.

Balæna sp. indet.

Allen, G. M. 1926 A, 465 (Eubalæna). Miocene; South Carolina.
Dall, W. H. 1894 A, 297 (This genus?). Miocene; Massachusetts.

BALÆNULA Van Beneden. Type *B. balænopsis* Van Beneden.

Van Beneden, P. J. 1872 B, 11-12.
Cabrera, A. 1926 B, 365.
Kellogg, R. 1928 A, 35.
Lydekker, R. 1887 B, 8, 10 (Syn. of Balæna).
Newton, E. T. 1891 A, 60 (Balæna).
Van Beneden, P. J. 1880 A, 52, pls. i-xvii; 3 text-figs.
1882 A, 23.

Balænula sp. indet.

Van Beneden, P. J. 1880 A, 31. Miocene?. Mouth of the Potomac.

ARCHÆODELPHIS Allen. Type *A. patrius* Allen.

Allen, G. M. 1921 C, 4.
Kellogg, R. 1924 A, 5.
1928 A, 34, 42, 180, 182.
Miller, G. S. 1923 A, 23, 30, 42, pl. v, fig. 3.
The family position of this genus is not determined.

Archæodelphis patrius Allen.

Allen, G. M. 1921 C, 4, pl. i.
Kellogg, R. 1924 C, 759.
1928 A, 48, 180, figs. 4, 15.
Eocene? (Jackson?); Alabama?.

Suborder ODONTOCETE Flower.

Flower, W. H. 1864 A, 388.
Hay, O. P. 1902 A, 588.
Abel, O. 1901 A, 7 ("odontocètes").
1901 B, 300, 313 ("odontoceten").
1902 A, 178 ("odontocètes").
1902 B, 510 ("zahnwale").
1905 A, 21 ("odontocètes").
1905 C, 375 ("odontoceten").
1905 E, 84 ("odontoceten").
1907 G, 5 ("zahnwale").
1909 A, 243.
1910 B, (186).
1912 F, 470 (Odontoceti); 725 (Delphinocete).
1913 B, 719 (Odontoceti).
1913 C, 211 (Odontoceti, Odontocetoidea); 221 (Squaloceti, Delphinoceti).
1914 A, 81 (Odontoceti); 99 (Delphinoceti).
1914 C, 390 ("zahnwale").
1919 A, 762 (Squaloceti); 772 (Delphinoceti).
1920 A, 424 (Delphinoceti).
Ameghino, F. 1889 A, 883, 895, 896, 898 (Odontoceta).
Andrews, C. W. 1907 C, 304 (Odontoceti).
1908 B, 209 (Odontoceti).
Anthony, R. 1912 A ("odontocète").
Arldt, T. 1907 D, 82, 144 (Odontoceti).
Beddard, F. E. 1900 A, 172, 317.
1902 A, 362 (Odontoceti).
Boenninghaus, G. 1904 A, 189 ("zahnwale").
Bolk, L. 1922 A, 111, 127 (Odontoceti).
Branca, W. 1908 C, 392 ("zahnwale").
Braun, M. 1908 A, 401 ("zahnwale").
Case, E. C. 1904 D, 4 (Odontoceti).
Cope, E. D. 1891 N, 69 (Odontoceti).
Cuvier, F. 1825 A, 240 ("cétacés piscivores").
Dal Piaz, G. 1916 A, 1-23 (Odontoceti).
1917 A, 3-34 (Odontoceti).
Dollo, L. 1907 C, 161 ("odontocètes").
Eastman, C. R. 1907 B, 90 (Odontocetes).
Fraas, E. 1905 B, 381 (Odontoceti).
Giebel, C. G. 1883 A ("zahnwale").
Giglioli, E. H. 1872 A, 3 ("cetodonti").
Gregory, W. K. 1910 A, 417 (Odontoceti).
1920 A, 160, 243 (Odontoceti).
Guérin, R. 1874 A, 65 ("cétodontes").
Hepburn, D. 1901 A, 681 (Denticeti).
Houssay, F. 1910 A, 17 ("denticètes").
Howes, G. B. 1894 A, 81 (Odontocœtes).
1903 A, 327.
Jaekel, O. 1903 C, 40 ("zahnwale").
1911 A, 231 (Odontoceti).
Kellogg, R. 1924 C, 756 ("toothed whales").
1926 B, 406 ("toothed whales").
1928 A, 29, 32, 37, 46.
Kükenthal, W. 1891 C, 397 ("zahnwale").
1905 A, 96 ("zahnwale").
1908 A, 610 ("zahnwale").
1908 C, 245 ("zahnwale").
1909 A, 545 ("zahnwale").
1913 A, 682 (Odontoceti).

Kunze, A. 1912 A, 579 ("zahnwale").
Larger, R. 1913 A, 721 ("denticètes").
Leche, W. 1887 A ("zahnwale").
1902 A, 45 ("zahnwale").
Leunis and Ludwig 1883 A, 277 (Denticete).
Lillie, D. G. 1910 A, 781.
Lockington, W. N. 1884 A, 182 (Delphinoidea).
Lönnberg, E. 1924 A, 1 (Odontoceti).
Lucas, F. A. 1901 C, 618.
Lydekker, R. 1901 B, 652 ("toothed whales").
1909 D, 22.
McIntosh, —— 1911 A, 81 (Odontoceti).
Matthes, E. 1921 C ("zahnwale").
Miller, G. S. 1923 A, 14, 33 (Odontoceti).
Osborn, H. F. 1902 E, 356, fig. 1.
1907 G, 16 (Odontoceti).
1907 H, 613 (Denticete).
1925 B, 18.
Osburn, R. C. 1903 A, 653 (Odontoceti).
Parker and Haswell 1897 A, 451 (Odontoceti).
Pompeckj, J. F. 1922 A, 57 ("zahnwale").
Reche, O. 1905 B, 162, 212, 242 (Denticeta).
Rehs, J. 1914 A, 41 (Odontoceti).
Reynolds, S. H. 1897 A, 357, 548 (Odontoceti).
Smith, G. E. 1903 A, 326 (Odontoceti).
1903 B, 46 (Odontoceti).
Steinmann, G. 1907 A, 468 (Odontoceti, Physeteroidea, Delphinoidea).
1908 A, 243 (Physeteroidea, Delphinoidea).
1912 B, 729 (Odontocoeti); 724 (Physeteroidea, Delphinoidea).
Sterling, S. 1910 C, 667 ("zahnwale").
Stromer, E. 1903 B, 39 (Denticeti).
1908 A, 83 ("zahnwale").
1908 B, 158 (Denticeti).
1915 A, 136 (Denticeti).
Terra, P. 1911 A, 342.
Thomas, O. 1888 A, 456, 458 ("odontocetes").
Trouessart, E. L. 1905 A, 754 (Odontoceti).
True, F. W. 1908 B, 391.
1912 E, 780 (Odontoceti).
Turner, W. 1909 A, 719 (Odontoceti).
Weber, M. 1886 A.
Weber and Abel 1928 A, 363, 389 (table), 392 (Odontoceti).
Weber and Burlet 1927 A, xv (Odontoceti).
Winge, H. 1919 A, 68 (Odontoceti).
Winge and Miller 1921 A, 10, 55. (Odontoceti).
Woodward, M. F. 1894 B, 436 (Odontoceti).
Zittel and Schlosser 1911 A, 406 (Odontoceti).
1923 A, 492 (Delphinoceti).

AGOROPHIIDÆ Abel.

Abel, O. 1913 B, 720.
1913 C, 219.
1914 A, 92 ("agorophiden").
1919 A, 751.
Allen, G. M. 1921 C, 4.
Kellogg, R. 1923 A, 44.
1925 B, 37.
1928 A, 47.
Miller, G. S. 1923 A, 22, 23, 40, 42.
Weber and Abel 1928 A, 403.
Zittel and Schlosser 1923 A, 488.

AGOROPHIUS Cope. Type *Zeuglodon pygmæus* Müller.

Hay, O. P. 1902 A, 589.
Abel, O. 1912 G, 68.
1913 B, 720.
1913 C, 213.
1914 A, 86.
1919 A, 751.
Allen, G. M. 1921 B, 240.
1921 C, 6.
Kellogg, R. 1923 A, 4.
1923 B, 4.
1928 A, 32, 42, 47, 182, 183.
Miller, G. S. 1923 A, 5, 24, 42, pl. v, fig. 2.
Stromer, E. 1903 D, 89.
1908 A, 82.
1908 B, 159.
1915 A, 135, 137.
Trouessart, E. L. 1905 A, 756.
True, F. W. 1907 A, 2.
1908 B, 387.
1909 C, 446.
1912 E, 780.
Weber and Abel 1928 A, 403.
Winge, H. 1919 A, 68, 81, 128.
Winge and Miller 1921 A, 23, 24, 71.
Zittel and Schlosser 1923 A, 488.

Agorophius pygmæus (Müller).

Hay, O. P. 1902 A, 589.
Abel, O. 1913 B, 720, fig. 23.
1913 C, 202, 213, 219, pl. x; text-fig. 15.
1914 A, 86, fig. 48.
1919 A, 753, fig. 560.
1920 A, 427, fig. 645.
Allen, G. M. 1926 A, 460.
Kellogg, R. 1923 A, 3, 4, 45.
1924 A, 3.
1924 C, 758.
1928 A, 48, fig. 4.
Lydekker, R. 1892 C, 561 (Doryodon).
Müller, J. 1849 A, 29, pl. xxiii, figs. 1, 2 ("kleiner Zeuglodon").
Stromer, E. 1908 A, pl. i, fig. 3.
1908 B, 173.
True, F. W. 1907 A, 2, pl. vi (Phocodon holmesii).
Tuomey, M. 1847 A, 283, 2 figs. ("Zeuglodon").
1847 B, 151, 2 figs. ("Zeuglodon").
1847 C, 16, pl. v. ("Zeuglodon").
Weber and Abel 1928 A, 403, fig. 249.

Upper Eocene (Cooper marl); South Carolina.

Xenorophus Kellogg. Type *X. sloanii* Kellogg.

Kellogg, R. 1923 B, 1.
1928 A, 32, 46, 47, 183.
Miller, G. S. 1923 A, 23, 25, 31, 40, pl. v, fig. 6.

Xenorophus sloanii Kellogg.

Kellogg, R. 1923 B, 1, pls. i, ii.
1924 C, 758.
1928 A, 47, 199, fig. 4.

Upper Eocene (Cooper marl); South Carolina.

SQUALODONTIDÆ Brandt.

Brandt, J. F. 1873, Bull. Acad. Imp. Sci., St. Pétersb., xviii, 576.
Hay, O. P. 1902 A, 588.
Abel, O. 1905 A, 25, 34, 46.
1905 B, 203 ("squalodontidés").
1905 E, 88 ("squalodontiden").
1913 B, 722.
1913 C, 220, 221.
1919 A, 762.
Allen, G. M. 1921 B, 240.
Ameghino, F. 1889 A, 895.
Arldt, T. 1907 D, 682.
Beddard, F. E. 1900 A, 307.
1902 A, 384.
Boas, J. E. V. 1914 B, 585 ("squalodonten").
Cabrera, A. 1926 B, 373.
Case, E. C. 1904 D, 5, 6.
Dal Piaz, G. 1904 A, 1, 16 (Squalodontidi).
Fraas, E. 1905 B, 382 ("squalodonten").
Gregory, W. K. 1920 A, 161.
Kampfen, P. N. 1905 A, 652.
Kellogg, R. 1925 D, 2.
1928 A, 32, 50.
Lönnberg, E. 1910 B, 247.
1911 A, 69.
1911 C, 2.
Lortet, L. 1887 A, 318 ("squalodons").
Lydekker, R. 1899 A, 920.
1909 D, 41.
Miller, G. S. 1923 A, 33, 40, 46.
Palacký, J. 1902 C, 256 ("squalodontiden").
Palmer, T. S. 1904 A, 771, 798.
Reche, O. 1905 B, 183.
Stromer, E. 1903 B, 37.
1908 A, 82.
1908 B, 158.
1915 A, 136.
Trouessart, E. L. 1905 A, 754.
True, F. W. 1908 B, 391.
1909 C, 452.
1911 B, 38.
1912 E, 779.
Van Beneden, P. J. 1880 A, 39 ("squalodons").
Weber, M. 1904 A, 582, 583 (Squalodontidæ); 583 (Mesoceti).
Weber and Abel 1928 A, 376, 403 ("squalodontiden").
Winge, H. 1919 A, 68, 80, 104, 127.
Winge and Miller 1921 A, 10, 22, 24, 45.
Zigno, A. de 1876 A, 18 ("squalodonti").
Zittel and Schlosser 1911 A, 407.
1923 A, 489, 672.

Squalodon Grateloup. Type *Squalodon typicus* Kellogg.

Hay, O. P. 1902 A, 588.
Abel, O. 1901 A, 9.
1902 A, 183.
1902 B, 518, pl., fig. 5.
1905 A, 33, 47.
1905 B, 203.
1905 E, 85.
1907 G, 21, fig. 15.
1908 A, 486, fig. 15.
1912 F, 467, 701, fig. 391.
1912 G, 59.
1913 B, 722, fig. 27.
1913 C, 194.
1914 A, 86, fig. 54.
1919 A, 764, fig. 571.
1920 A, 427, fig. 646.
Arldt, T. 1907 D, 38, 433.
Beddard, F. E. 1900 A, 308.
Bronn, H. G. 1848 B, 1196.
1849 A, 702.
Cabrera, A. 1926 B.
Capellini, G. 1881 A, 413, pl.
Case, E. C. 1904 D, 6.
Dal Piaz, G. 1900 A, 304, pls. xxvi-xxix.
1903 A, 219.
1904 A, 4, 12.
1917 A, 6.
Dollo, L. 1919 A, 12.
Fraas, E. 1904 A, 14.
1905 B, 384.
Gemmellaro, M. 1921 A.
Gervais, P. 1852 A, 151, explan. pls. viii, xli.
1859 A, 309.
1871 B, 79, pls. ii, iii.
Giebel, C. G. 1883 A.
Grateloup, J. P. S. 1840 B, 346.
Gregory and Kellogg 1927 A, 4.
Hall, T. S. 1911 A, 344.
Heilprin, A. 1887 A, 344.
Hoernes, R. 1886 A, 699.
Holmes, F. S. 1870 A, 64 ("squalodons," "phocodons").
Huxley, T. H. 1870 F, 531.
Kampfen, P. N. 1905 A, 652.
Kellogg, R. 1923 A, 1, 18, 35, 40.
1924 C, 764.
1925 C, 4, 10.
1926 A, 7.
1927 A, 6.
1928 A, 32, 53, 58, 201.
Larger, R. 1913 A, 726.
Lönnberg, E. 1910 B, 248.
1911 A, 70.
1911 C, 13.
Lortet, L. 1887 A, 315, 316, 2 pls. (Rhizoprion).
Lydekker, R. 1887 B, 15.
1892 C, 559.
1894 B, 125.
1899 A, 920.

Lydekker, R. 1901 B, 653.
1909 D, 41, figs. 31, 32.
Miller, G. S. 1923 A, 26, 46.
Newton, E. T. 1891 A, 75.
Osborn, H. F. 1910 B, 251, 561.
Palacký, J. 1902 C, 256.
Palmer, T. S. 1904 A, 642, 798.
Pictet, F. J. 1853 A, 379.
Pompeckj, J. F. 1922 A, 83, 87, 88.
Reche, O. 1905 B, 183.
Reynolds, S. H. 1897 A, 367, 427.
Schlosser, M. 1899 I, 346.
Schmidt, O. 1886 A, 253, fig. 47.
Seeley, H. G. 1878 A, 222.
Stromer, E. 1903 B, 37.
1903 D, 86, 95.
1915 A, 135.
Suess, E. 1868 A, 287, pl. x.
Trouessart, E. L. 1905 A, 755.
True, F. W. 1907 A, 6.
1908 B, 386.
1909 C, 446.
1910 B.
1912 D, 200.
Wallace, A. R. 1876 A, II, 210.
Weber, M. 1886 A, 190, 233.
1904 A, 565, 567, 582.
Weber and Abel 1928 A, 403, fig. 250.
Winge, H. 1910 A, 30.
1919 A, 68, 81, 128.
Winge and Miller 1921 A, 23, 24.
Woodward, A. S. 1898 D, 333.
Zigno, A. 1876 A, 19, pl.
Zittel, K. A. 1877 A, 233, pl. xxxv.
1877 B, 19-46, pl. i.
Zittel and Schlosser 1911 A, 407.
1923 A, 489, 490, fig. 613.

Squalodon atlanticus Leidy.

Hay, O. P. 1902 A, 589.
Allen, G. M. 1916 A, 282 (Basilosaurus).
Cabrera, A. 1926 B, 382.
Case, E. C. 1904 D, 6, pl. x, figs. 1-3 (Squalodon); 7 (Basilosaurus).
Kellogg, R. 1923 A, 7, 41.
Rhoads, S. N. 1903 A, 247.
Shattuck, G. B. 1904 A, xciv.
Stromer, E. 1908 B, 158.
Upper Miocene (Calvert); Maryland, New Jersey.

Squalodon calvertensis Kellogg.

Kellogg, R. 1923 A, 41, 45, pls. i-xvi; text-figs. 1, 2.
Cabrera, A. 1926 B, 380, 385.
Kellogg, R. 1923 B, 2.
1928 A, 51.
Middle Miocene (Calvert); Maryland.

Squalodon crassus Allen.

Allen, G. M. 1926 A, 462, pl. v.
Kellogg, R. 1928 A, 200, fig. 22.
Upper Miocene (Edisto marl); South Carolina.

Squalodon pelagius Leidy.

Hay, O. P. 1902 A, 589.
Kellogg, R. 1923 A, 3, 28 (Squalodon?).
Upper Miocene (Edisto marl); South Carolina.

Squalodon tiedemani Allen.

Hay, O. P. 1902 A, 589.
Kellogg, R. 1923 A, 3, 4.
Palacký, J. 1902 C, 256.
True, F. W. 1910 B, 22.
Miocene (Wando River); South Carolina.

Squalodon sp. indet.

Kellogg, R. 1923 A, 3, 29 (Squalodon protervus Leidy, not of Cope) Ashley River, S. Carolina: 63, pls. xvii-xx; Miocene (Calvert); Maryland.
Rhoads, S. N. 1903 A, 246. Miocene; New Jersey.

Cetophis Cope. Type *C. heteroclitus* Cope.

Hay, O. P. 1902 A, 593.
Palmer, T. S. 1904 A, 174, 797.
Trouessart, E. L. 1905 A, 763.
True, F. W. 1912 E, 780.

Cetophis heteroclitus Cope.

Hay, O. P. 1902 A, 593.
Case, E. C. 1904 D, 23, pl. xiv, fig. 4.
Shattuck, G. B. 1904 A, xciv.
Van Beneden, P. J. 1880 A, 31.
Middle Miocene (Calvert); Maryland.

Colophonodon Leidy. Type *C. holmesii* Leidy.

Leidy, J. 1853 C, 377.
Hay, O. P. 1902 A, 589 (Squalodon, in part).
Kellogg, R. 1923 A, 20.

Colophonodon holmesii Leidy.

Hay, O. P. 1902 A, 589 (Squalodon).
Allen, G. M. 1924 A, 121.
Kellogg, R. 1923 A, 20.
Upper Miocene (Edisto marl); South Carolina.

Saurocetus Agassiz. Type *S. gibbesii* Agassiz.

Hay, O. P. 1902 A, 588.
Abel, O. 1907 B, 255.
Cabrera, A. 1926 B, 397.
Kellogg, R. 1928 A, 32.
Stromer, E. 1903 D, 88.

Saurocetus gibbesii Agassiz.

Hay, O. P. 1902 A, 588.
Allen, G. M. 1924 A, 120.
1926 A, 461, pl. iv.

Kellogg, R. 1923 A, 15.
Trouessart, E. L. 1905 A, 754.
Van Beneden, P. J. 1880 A, 31.
Miocene?; South Carolina.

INIIDÆ Gill.

Gill, T. 1872 B, 14, 94.
Abel, O. 1905 A, 41, 129 (Acrodelphidæ).
1905 E, 96 ("acrodelphiden").
1912 F, 467 ("acrodelphiden").
Cabrera, A. 1926 B, 396.
Eastman, C. R. 1907 C, 86 (Acrodelphidæ).
Gray, J. E. 1863 A, 199 (Iniadæ).
Kellogg, R. 1928 A, 32, 54.
Miller, G. S. 1923 A, 34, 40, 47.
Roverto, C. 1915 A, 141 (Acrodelphidæ).
True, F. W. 1908 B, 388, 391.
1909 B, 329 (Acrodelphidæ a syn.).
1909 C, 446.
1912 E, 779 (Acrodelphidæ a syn.).
Van Beneden and Gervais 1880 A, 468, pl. xxix (Inia).
Weber and Abel 1928 A, 389 (table), 392 (Iniinæ).
Zittel and Schlosser 1911 A, 408 (Acrodelphidæ).

INIINÆ Flower.

Flower, W. H. 1867 A, 114.
Abel, O. 1905 A, 129.
Cuvier, F. 1836 A, 166 ("les inias").
Eastman, C. R. 1907 C, 86.
Roverto, C. 1915 A, 141 (Acrodelphinæ).
True, F. W. 1908 B, 391.
Zittel and Schlosser 1911 A, 408.
1923 A, 491.

HESPEROCETUS True. Type *H. californicus* True.

True, F. W. 1912 B, 1.
Miller, G. S. 1923 A, 49.

Hesperocetus californicus True.

True, F. W. 1912 B, 1, pls. i, ii.
Lydekker, R. 1913 A, 9.
Winge and Miller 1921 A, 79.
Upper Miocene (Upper San Pablo); California.

ZIPHIIDÆ Gray.

Gray, J. E. 1865, Proc. Zool. Soc. Lond., 528.
Abel, O. 1905 A, 40, 88.
1905 B, 207 ("ziphiides").
1909 A, 247, 252 ("ziphiiden").
1909 B, 261 ("ziphiiden").
1913 C, 221.
1914 A, 95, 96.
Arldt, T. 1907 D, 689.
Cabrera, A. 1926 B, 391.
Gervais, P. 1859 A, 285 ("ziphidés").
1868 A, 141, pl. v (Ziphius).
Gray, J. E. 1866 A, 326.
Harmer, S. F. 1924 A, 546, fig. 1.
Kellogg, R. 1924 C, 765.
1928 A, 32, 58.
Lockington, W. N. 1884 A, 182.
Miller, G. S. 1923 A, 34, 40, 52.
Owen, R. 1870 D, 1 (Ziphius).
Palmer, T. S. 1904 A, 776, 794.
Taschenberg, O. 1899 A, 4708.
True, F. W. 1908 B, 387, 388, 391.
1910 A, 1-89.
Van Beneden, P. J. 1880 A, 39 ("ziphioïdes").
1885 A, 10 ("ziphioïdes").
1888 B, 1-119 ("ziphioïdes").
Weber and Abel 1928 A, 376, 389 (table), 393-405 (Ziphiinæ).
Winge and Miller 1921 A, 43 (Xiphiini).
Zittel and Schlosser 1911 A, 408 (Ziphiinæ).
1923 A, 491.

ZIPHIINÆ Gill.

Gill, T. 1871 B, 124.
Hay, O. P. 1902 A, 596.
Abel, O. 1901 A, 14, 38.
1902 A, 184 ("ziphiinés").
1905 E, 91 ("ziphiiden").
1912 F, 523, 708 ("ziphiiden").
1913 B, 724 (Ziphiidæ).
1914 C, 389.
1919 A, 766 (Ziphiidæ).
Beddard, F. E. 1900 A, 220, 320 ("ziphioids").
1902 A, 367.
Burmeister, H. 1868 A, 309 (Ziphiadæ).
Case, E. C. 1904 D, 30.
Du Bus, B. 1867 A, 569 ("les ziphius").
1868 A, 621 ("ziphiidés").
Flower, W. H. 1878 A, 415 ("ziphoid whales").
Gervais, P. 1852 A, 153, 154 (Ziphius).
1859 A, 285 ("ziphidés").
Gregory, W. K. 1920 A, 161.
Harmer, S. F. 1915 A, 559 (Ziphius).
Huxley, T. H. 1864 C, 9 (Rhynchoceti).
Kampfen, P. N. 1905 A, 646.
Kernan, J. D. 1918 A, 349-394, pls. xx-xxiii (Ziphius).
Kükenthal, W. 1908 A, 610 ("ziphiinen").
Larger, R. 1913 A, 724 ("ziphiidés").
Owen, R. 1870 D, 1 ("ziphoid family"); 16 (Ziphius).
Palmer, T. S. 1904 A, 776, 794 (Ziphiina).
Reche, O. 1905 B, 167, 169, fig. 14 (Ziphiina).
Steinmann, G. 1912 B, 728.
Sterling, S. 1910 B, 231 (Ziphiineæ).
Van Beneden, P. J. 1888 B, 5, 79.
Weber, M. 1904 A, 576, 578.
Winge, H. 1919 A, 68, 96 (Xiphiini).
Winge and Miller 1921 A, 44 (Xiphii).
Zittel and Schlosser 1911 A, 408.

EBOROZIPHIUS Leidy. Type *E. cœlops* Leidy.

Leidy, J. 1876 A, 81.
Hay, O. P. 1902 A, 596.
Abel, O. 1905 A, 108 (Syn. of Choneziphius).
Kellogg, R. 1928 A, 33.
Leidy, J. 1877 A, 224.

Eboroziphius cœlops Leidy.

Leidy, J. 1876 A, 81.
Hay, O. P. 1902 A, 596 (Choneziphius).
Abel, O. 1905 A, 108 (E. cælops; syn. of Choneziphius planirostris).
Upper Miocene; South Carolina.

PROROZIPHIUS Leidy. Type *P. macrops* Leidy.

Hay, O. P. 1902 A, 597.
Abel, O. 1905 A, 115 (Syn. of Mesoplodon).
Kellogg, R. 1928 A, 33.
Palmer, T. S. 1904 A, 575, 796.
True, F. W. 1912 E, 780.

Proroziphius chonops Leidy.

Hay, O. P. 1902 A, 597.
Abel, O. 1905 A, 115 (Mesoplodon longirostris).
Allen, G. M. 1926 A, 464.
Upper Miocene (Phosphate beds); South Carolina.

Proroziphius macrops Leidy.

Hay, O. P. 1902 A, 597.
Abel, O. 1905 A, 115 (Mesoplodon longirostris).
Miocene (Phosphate beds); South Carolina.

BELEMNOZIPHIUS Huxley. Type *B. compressus* Huxley.

Huxley, T. H. 1864 A, 393.
Hay, O. P. 1902 A, 597 (Mesoplodon, in part).
Abel, O. 1905 A, 115 (Mesoplodon, in part).
Du Bus, B. 1868 A, 570.
Huxley, T. H. 1864 C, 4, 6.
Kellogg, R. 1928 A, 33.
Owen, R. 1870 D, 38.

Belemnoziphius prorops Leidy.

Hay, O. P. 1902 A, 597 (Mesoplodon).
Abel, O. 1905 A, 115 (Mesoplodon longirostris).
Trouessart, E. L. 1905 A, 777 (Mesoplodon).
Upper Miocene (Phosphate beds); South Carolina.

CHONEZIPHIUS Duvernoy. Type *Ziphius planirostris* Cuvier.

Hay, O. P. 1902 A, 596.
Abel, O. 1905 A, 107.
1905 E, 93.
1912 F, 583.
1913 B, 724.
1914 A, 97, fig. 59.
1919 A, 768, figs. 575, 577.
Du Bus, B. 1868 A, 628, 630 (Ziphiopsis, Belemnoziphius).
Gervais, P. 1852 A, explan. pl. xl.
1859 A, 288.
Kellogg, R. 1928 A, 33.
Lankester, E. R. 1870 B, 502.
Lydekker, R. 1887 B, 14.
Newton, E. T. 1891 A, 69.
Owen, R. 1870 D, 1 (Ziphius, in part); 35 (Choneziphius).
Palmer, T. S. 1904 A, 187, 794.
Pictet, F. J. 1853 A, 385.
Trouessart, E. L. 1905 A, 775.
Weber and Abel 1928 A, 405.
Winge, H. 1919 A, 98 (Chonoxiphius).
Winge and Miller 1921 A, 44 (Chonoxiphius).
Zittel and Schlosser 1911 A, 408.
1923 A, 491.

Choneziphius planirostris Cuvier.

Cuvier, G. 1823 Oss. foss. 2nd ed., v, 356, pl. xxvii, figs. 4-8 (Ziphius).
Hay, O. P. 1902 A, 597 (C. liops, C. trachops).
Abel, O. 1905 A, 107.
1912 A, (53).
1912 F, 584, figs. 453, 454.
1913 B, 724, fig. 30.
1922 D, 33, 42, figs. 8, 9.
Allen, G. M. 1926 A, 464 (Choneziphius trachops, C. liops).
Capellini, G. 1885 A, 18-28, pl.
Du Bus, B. 1868 A, 628 (Ziphiopsis phymatodes).
Duvernoy, G. L. 1851 A, 63, 71, pl. ii, fig. 5.
Gervais, P. 1859 A, 288, pl. xl, fig. 2.
Huxley, T. H. 1864 A, 391, 395 (Ziphius planirostris); 393, pl. xix (Belemnoziphius compressus).
Kellogg, R. 1928 A, 59, fig. 8.
Lankester, E. R. 1870 B, 503, fig. 1 (C. planirostris); 502, pl. xxxiii (C. packardi).
Larger, R. 1913 A, 729.
Lydekker, R. 1887 A, 14, pl. ii, fig. 7.
Newton, E. T. 1891 A, 69, pl. viii, fig. 6; text-fig. 70.
Owen, R. 1870 D, 5, text-fig. 2 (Ziphius planirostris); 16, pl. ii, fig. 1 (Ziphius planus).
Van Beneden and Gervais 1880 A, 413, pl. xxvii, figs. 4, 5; pl. xxvii *bis*, fig. 4 (C. planirostris); 417, pl. xxvii *bis*, fig. 1 (Ziphiopsis phymatodes).
Weber and Abel 1928 A, 405, figs. 252, 253.
Upper Miocene (Phosphate beds); South Carolina; Europe.

PELYCORHAMPHUS Cope. Type *P. pertortus* Cope.

Hay, O. P. 1902 A, 597.
Kellogg, R. 1928 A, 33.
Palmer, T. S. 1904 A, 521, 796.
Trouessart, E. L. 1905 A, 775.
True, F. W. 1907 B, 105.

Pelycorhamphus pertortus Cope.

Hay, O. P. 1902 A, 597.
Miocene; Locality unknown.

ANOPLONASSA Cope. Type *A. forcipata* Cope.

Hay, O. P. 1902 A, 597.
Abel, O. 1905 E, 92.
1913 B, 724.
1919 A, 767, fig. 578.
Eastman, C. R. 1907 C, 87.
Kellogg, R. 1928 A, 32.
Lönnberg, E. 1910 B, 250.
1911 A, 72.
Palmer, T. S. 1904 A, 106, 794.
True, F. W. 1907 B, 98.
1912 E, 780 (Anaplonassa).
Winge and Miller 1921 A, 91.
Zittel and Schlosser 1923 A, 491.

Anoplanassa forcipata Cope.

Hay, O. P. 1902 A, 597.
Abel, O. 1904 A, 4.
1905 E, 92.
Trouessart, E. L. 1905 A, 775.
True, F. W. 1907 B, 97, pls. i-iii.
Upper Miocene (Phosphate beds); South Carolina.

MESOPLODON Gervais. Type *Delphinus sowerbiensis* Blainv. = *Physeter bidens* Sowerby.

Hay, O. P. 1902 A, 597.
Abel, O. 1901 A, 14, pl. ii, figs. 8, 9.
1902 B, pl., figs. 4, 7.
1904 B, 745.
1905 A, 110.
1905 B, 202.
1905 E, 93.
1907 B, (77).
1908 B, 179.
1909 A, 243.
1912 F, 478, 685, figs. 364, 399.
1914 C, 389.
Allen, G. M. 1906 A, 357.
Anderson, R. J. 1901 A, 682.
1902 A, 1121, fig. 14.
Aurivillius, C. W. S. 1886 A, 1-40, pls. i, ii (Micropteron).
Beddard, F. E. 1900 A, 213, 317, figs. 16, 28.
1902 A, 369.
Bouvier, L. E. 1889 B, 302.
Cabrera, A. 1926 B.
Capellini, G. 1885 B, 291, pl. (Dioplodon, Mesoplodon).
Diener, C. 1909 A, 48.
Doran, A. H. G. 1878 A, 458, pl. lxiii.
Dumortier, B. C. 1839 A, 1-12, pls. i-iii ("delphinorhynque").
Eastman, C. R. 1907 B, 90.
Elliot, D. G. 1901 A, 17, fig. 5.
Fitzsimons, F. W. 1907 A, 247, figs. 1, 2.
Flower, W. H. 1878 A, 415, pls. lxxi-lxxiii; 4 text-figs.
Gaudry, A. 1892 B, 1283.
Gervais, P. 1852 A, 153, explan. pl. xxxvii; explan. pl. xl (Dioplodon).
1859 A, 289 (Dioplodon); 290 (Mesoplodon).
Giebel, C. G. 1855 A, 85, pl. xxxvii, fig. 11.
1883 A.
Gregory, W. K. 1920 A, 161.
Guérin, R. 1874 A, 67 (Mesoplodon, Dioplodon).
Hanke, H. 1915 A, 59, figs. 1, 2.
Harmer, S. F. 1915 A, 560.
1924 A, 541, pls. i-iv; text-figs. 1-3.
Heilprin, A. 1887 A, 342, 345.
Howell, A. B. 1927 A, 12.
Huxley, T. H. 1864 C, 4, 6 (Belemnoziphius).
Kampfen, P. N. 1905 A, 646.
Kellogg, R. 1928 A, 33, 61.
Kükenthal, W. 1908 A, 610.
1914 B, 93.
Kunze, A. 1912 A, 625.
Larger, R. 1913 A, 724.
Lockington, W. N. 1884 A, 183.
Lönnberg, E. 1910 B, 229.
1911 A, 35, 73.
Lydekker, R. 1887 B, 15.
1909 D, 27, fig. 11.
McIntosh, —— 1911 A, 90, 94.
Major, C. J. F. 1899 A, 500.
Marinelli, W. 1924 A, 39.
Miller, G. S. 1923 A, 35, pl. v, fig. 5.
1924 C, 515.
Newton, E. T. 1891 A, 72.
Owen, R. 1870 D, 1 (Ziphius, in part); 35 (Mesoplodon).
Palacký, J. 1902 C, 256.
Palmer, T. S. 1904 A, 415, 795.
Pütter, A. 1923 A, 224.
Reche, O. 1905 B, 170.
Reynolds, S. H. 1897 A, 427.
Sclater, P. L. 1897 A, 352.
Southwell and Harmer 1893 A, 275.
Taschenberg, O. 1899 A, 4621.
Trouessart, E. L. 1905 A, 777.
True, F. W. 1907 B, 99.
1909 C, 452.
1910 A, 3, pls. i-xiii.
1912 E, 780 (Belemnoziphius).
1913 A, 651.
Turner, W. 1880 A, 2, pls. i-iii.
1882 A, 458.
1886 A, 38.
1889 A, 1, fig. 1 (Micropteron).
1909 A, 687.
Van Beneden, P. J. 1880 A, 43.
1888 B, 95 (Micropteron).
Weber, M. 1904 A, 566, 573, 576, 578, text-fig. 420.
Weber and Abel 1928 A, 376, 393, 406, fig. 232.
Winge, H. 1919 A, 97.
Winge and Miller 1921 A, 44.
Zittel and Schlosser 1923 A, 491.

Mesoplodon longirostris.

Abel, O. 1905 A, 115 (Dioplodon prorops, Proroziphius chonops, P. macrops, as syns.).
1914 C, 382 (Ziphius longirostris).
Capellini, G. 1885 B, 294, pl. i, figs. 1-3.
Du Bus, B. 1867 A, 570 (Zyphius).
1868 A, 630 (Belemnoziphius recurvus).
Gervais, P. 1859 A, 297.
Huxley, T. H. 1864 C, 1, 7, pl. i (Belemnoziphius compressus).
Lydekker, R. 1887 B, 15, fig. 8 (This species?).
Newton, E. T. 1891 A, 72, pl. viii, fig. 7.
Trouessart, E. L. 1905 A, 777 (M. longirostris, M. prorops).
Van Beneden, P. J. 1880 A, 31.
Winge, H. 1910 A, 1.

Inasmuch as Dr. Abel has referred certain American species to *Mesoplodon longirostris* citations to its literature are made.

HYPEROÖDON Lacépède. Type *H. butskopf* Lacépède = *H. ampulatus* (Forster).

Lacépède, B. G. 1904, Hist. Nat. Cét., etc. xliv, 319-324.
Abel, O. 1913 B, 724.
1914 A, 97.
Bouvier, E. L. 1892 A, 259, pls. vii, viii.
Braun, M. 1908 A, 407.
Burlet, H. M. 1917 A, 381.
Cabrera, A. 1926 B.
Carus, V. 1875 A, 170.
Carus and Engelmann 1861 A, 1750.
Cuvier, F. 1836 A, 241, pl. ix, figs. 1-3; pl. xvii, fig. 1.
Cuvier, G. 1825 A, v, pt. 1, 281, 324, pl. xxiv.
Doran, A. H. G. 1878 A, 457, pl. lxii.
Elliot, D. G. 1901 A, 15, pl. iv.
Eschricht, D. F. 1849 A, 21.
1869 A, 11, 12, pls. vi, vii.
Eudes-Deslongchamps, E. 1842 A, 1, pl. i.
Flower, W. H. 1867 A, 111, 115.
1882 C, 392, figs. 1, 2.
1883 B, 467.
1883 E, 722.
Flower and Lydekker 1891 A, 252, fig. 84.
Gervais, P. 1852 A, 155, explan. pl. xxxvii.
1859 A, 286.
Graves, R. J. 1831 A, 88.
Gray, D. 1883 A, 726, figs. 1-8.
Gray, J. E. 1846 A, 25, 52, pls. iii, iv.
1863 A, 200.
Guérin, R. 1874 A, 66.
Harmer, S. F. 1924 A, 543, 545, fig. 1.
Howell, A. B. 1927 A, 12.
Huxley, T. H. 1863 F, 636.
1870 F, 531.
Kampfen, P. N. 1905 A, 645.
Kellogg, R. 1928 A, 61, 197, 198.
Köstlin, O. 1844 A.
Kükenthal, W. 1891 C, 389.
1893 B, 56.
1900 A, 219, fig. 8.
Leunis and Ludwig 1883 A, 280.
Lockington, W. N. 1884 A, 183.
Lönnberg, E. 1924 A, 3.
Lull, R. S. 1917 B, 333.
Lydekker, R. 1887 A, 63.
1887 B, 14, pl. ii, fig. 6.
1909 D, 28, fig. 10.
McIntosh, — 1911 A, 90, 94.
Major, C. J. F. 1899 A, 500.
Meckel, J. F. 1825 A.
Miller, G. S. 1923 A, 26, 28, 30, 35, 52, pl. vii, fig. 4.
Newton, E. T. 1891 A, 69.
Nopcsa, F. 1923 B, 356.
Owen, R. 1845 F, 37.
1866 B, 418, 426, 429.
Palmer, T. S. 1904 A, 340, 795.
Pander and Alton 1827 A, 4, pls. v, vi.
Pompeckj, J. F. 1922 A, 83.
Probst, J. 1886 A, 111.
Reche, O. 1905 B, 167, fig. 13.
Reynolds, S. H. 1897 A, 448, 464, 489.
Rousseau, L. F. E. 1856 A, 13 ("hypéroodons").
Sclater, P. L. 1897 A, 352.
Taschenberg, O. 1899 A, 4596.
Thompson, W. 1838 A, 221.
Trouessart, E. L. 1905 A, 775.
True, F. W. 1910 A, 76, pl. xxxii.
Turner, W. 1886 A, 25, figs. 1-4.
1889 B, 19.
1909 A, 698.
Van Beneden, P. J. 1888 B, 33.
Van Beneden and Gervais 1880 A, 355, pls. xviii, xix, lxiii.
Wallace, A. R. 1876 A, ii, 208.
Weber, M. 1886 A.
1904 A, 573, 576, 578.
Weber and Abel 1928 A 389 (table), 393.
Wilder, B. 1872 B, 316.
Winge, H. 1919 A, 99, 132.
Winge and Miller 1921 A, 44, 73.
Zittel, K. A. 1893 B, 178.

Hyperoödon sp. indet.

Dall, W. H. 1894 A, 297. Miocene; Massachusetts.
Lyell, C. 1843 C, 32. Miocene?; Massachusetts.
1845 B, i, 258, pl. v, figs. 2, 3 (Hyperoodon, "whale"). Miocene; Massachusetts.

DELPHINIDÆ Gray.

Gray, J. E. 1821 A, 310.
Hay, O. P. 1902 A, 593.
Abel, O. 1901 A, 35.
1901 B, 316 ("delphine").
1902 A, 170 ("delphinides").
1902 B, 523 ("delphinide").
1905 A, 43, 139.
1905 B, 207.
1905 C, 376.
1907 G, 7 ("delphinen").
1908 B, 139 ("delphine").
1912 F, 196 ("delphinide").
1913 B, 725 (Delphinidæ).
Adloff, P. 1913 A, 238 ("meerschweinchen").

Adloff, P. 1913 C, 13 ("delphine").
Arldt, T. 1907 D, 650.
Bayer, F. 1897 A, 147 ("dauphins").
Beddard, F. E. 1900 A, 237, 314.
1902 A, 372.
Bonaparte, C. L. 1832 A, 293 (Delphinina).
Branca, W. 1908 C, 393 ("delphinide").
Burlet, H. M. 1913 A, 523 (Phocæna).
1913 C, 645 (Phocæna).
1916 A, 1-18, figs. 2, 5-7 (Phocæna).
1917 A, 377, fig. 1 (Phocæna).
Burmeister, H. 1869 A, 367 ("delfinides").
Cabrera, A. 1926 B, 404.
Carus, V. 1875 A, 169 (Delphinida).
Case, E. C. 1904 D, 5, 29.
Cuvier, F. 1825 A, 241 ("dauphins").
1836 A, 73 ("dauphins").
Cuvier, G. 1825 A, v, pt. 1, 273-328, pls. xxi-xxiv ("dauphins").
Denker, A. 1901 A, 658 (Phocæna).
Dollo, L. 1913 B, 616.
Doran, A. H. G. 1878 A, 459.
Eastman, C. R. 1906 E, 96.
Elliot, D. G. 1901 A, 18.
Fejérváry, G. J. 1920 A, 353.
Frassetto, F. 1903 A, 244.
Gervais, P. 1859 A, 299 ("delphinidés").
Giebel, C. G. 1883 A ("delphininen").
Gray, J. E. 1821 A, 310 (Delphinidæ).
1846 A, 24.
1863 A, 199.
1876 B, 391.
Harmer, S. F. 1924 A, 554.
Hensel, R. 1879 A, 529 ("delphine").
Hepburn, D. 1901 A, 681.
Hoernes, R. 1912 A, 661.
Huxley, T. H. 1863 F, 635 (Delphinoidea).
Jaekel, O. 1908 B, 464 ("delphine").
Kampfen, P. N. 1905 A, 636.
Kellogg, R. 1924 B, 8.
1927 A, 6.
1928 A, 33, 62.
Köstlin, O. 1844 A ("delphinen").
Kükenthal, W. 1908 A, 610 ("delphinide").
Leunis and Ludwig 1883 A, 277.
Lockington, W. N. 1884 A, 188.
Lönnberg, E. 1911 C, 14.
Lydekker, R. 1887 B, 13.
1899 A, 920.
1901 B, 652 ("dolphins").
McIntosh, — 1911 A, 85.
Martins, C. 1857 A, 69 ("dauphins").
Meckel, J. F. 1825 A ("delphinen").
Miller, G. S. 1923 A, 29, 34, 40.
1924 C, 507.
Owen, R. 1845 B, 350.
1845 F, 37.
1848 B, 58.
1868 A, 876.
1869 D, 17.
Palacký, J. 1902 C, 258 ("delphinide").
Palmer, W. 1915 A, 261 ("porpoises").
Pander and Alton 1827 A, 2.
Pictet, F. J. 1853 A, 381 ("delphinides").
Pompeckj, J. F. 1922 A, 87 ("delphiniden").
Probst, J. 1886 A, 127.
Reche, O. 1905 B, 187.
Rehs, J. 1914 A, 41.
Rogenhofer, A. 1908 A, (42), ("delphine").
Rousseau, L. F. E. 1856 A, 11 ("dauphins").
Rovereto, C. 1915 A, 139 ("delphines").
Sclater, P. L. 1897 A, 352.
Steinmann, G. 1908 A, 237.
1912 B, 721, 725.
Stromer, E. 1908 B, 170.
Taschenberg, O. 1899 A, 4538.
Terra, P. 1911 A, 343 (Delphinidæ).
Trouessart, E. L. 1905 A, 763.
True, F. W. 1906 B, 446.
1908 B, 289, 391.
1909 B, 329.
1911 A, 908.
1911 B, 38.
1912 C, 189.
1912 E, 779.
Turner, W. 1909 A, 697, 700.
Van Beneden and Gervais 1880 A, 521 ("delphinoides").
Vrolik, W. 1850 A, 597 (Delphinus).
Wagner, R. 1843 A ("delphinen").
Wallace, A. R. 1876 A, II, 208.
Weber, M. 1904 A, 577, 579.
Weber and Abel 1928 A, 389 (table), 393, 394.
Winge, H. 1919 A, 68, 87, 94, 104, 132.
Winge and Miller 1921 A, 11, 28, 46, 87.
Woodward, A. S. 1898 E, 330 ("porpoises").
Wright, G. F. 1911 B, 436 ("dolphins").
Zittel and Schlosser 1911 A, 408.
1923 A, 492.

DELPHININÆ Flower.

Flower, W. H. 1867 A, 115.
Hay, O. P. 1902 A, 593.
Abel, O. 1905 A, 140.
Flower, W. H. 1867 A, 115.
Gray, J. E. 1870 B, 392 (Globiocephalidæ).
Kellogg, R. 1928 A, 63.
Miller, G. S. 1923 A, 34, 40, 48.
Pompeckj, J. F. 1922 A, 88 (Belugìnæ).
Reche, O. 1905 B, 190.
True, F. W. 1908 B, 391.
Weber, M. 1904 A, 577, 579.
Winge and Miller 1921 A, 32 (Delphini).

GLOBICEPHALA Lesson. Type *G. melæna* (Traill).

Lesson, R. P. 1828, Hist. Nat. Mamm., Oiseaux, etc., I, 441.

Unless otherwise indicated the following authors use the generic name *Globiocephalus*.

Abel, O. 1909 A, 248.
Beddard, F. E. 1900 A, 280, 315, fig. 37.
Braun, M. 1908 A, 400.
Burlet, H. M. 1917 A, 381.
Burmeister, H. 1869 A, 367, pl. xxi.
Cuvier, F. 1836 A, 190, pl. xiii (Phocæna).
Dollo, L. 1913 B, 616.
Doran, A. H. G. 1878 A, 460, pl. lxiii.
Elliot, D. G. 1901 A, 23.
Eschricht, D. F. 1849 A. 7 (Globiceps).

Flower, W. H. 1867 A.
1883 B, 508 (Globiceps).
1883 D, 399.
Flower and Lydekker 1891 A, 268.
Gervais, P. 1853 B, 37 (Delphinus).
Giebel, C. G. 1883 A, pl. lxviii.
Grant, R. E. 1833 A, 65 (Delphinus).
Gray, J. E. 1846 A, 32.
1863 A, 201.
1870 B, 392.
Guérin, R. 1874 A, 72.
Hase, A. 1913 A, 141, fig. 61.
Heilprin, A. 1887 A, 342.
Kampfen, P. N. 1905 A, 638.
Kehrer, F. A. 1896 A, 357, fig. 38.
Kellogg, R. 1928 A, 33, 63, 69, 194.
Kükenthal, W. 1888 A, 642, figs. 3, 4.
1891 C, 394.
1900 A, 230.
1908 A, 610.
Lebedinsky, N. G. 1917 A, 317, fig. 1.
Leboucq, H. 1889 A, 574.
Leche, W. 1900 A, 1026 (Beluga).
Le Damany, P. 1906 A, 64 ("globicephale").
Leunis and Ludwig 1883 A, 278.
Lockington, W. N. 1884 A, 187.
Lönnberg, E. 1910 B, 223.
1911 A, 26.
1911 C, 16, fig. 7.
1911 D, 14, figs. 11, 12.
Lull, R. S. 1917 B, 333.
Lydekker, R. 1887 A, 81.
1887 B, 16.
1909 D, 31, 37, fig. 17.
McIntosh, — 1911 A, 91.
Matthes, E. 1921 C.
Miller, G. S. 1923 A, 25.
1924 C, 512.
Murie, J. 1873 A, 235.
Newton, E. T. 1891 A, 77, pl. vii, figs. 5, 6; pl. viii, fig. 8.
Nopcsa, F. 1923 H, 161 (Globicephalus).
Oswald, F. 1911 A, 410.
Palacký, J. 1902 C, 261.
Palmer, T. S. 1904 A, 296, 792 (Globicephala).
Parker and Haswell 1897 A, 501, fig. 1081.
Pompeckj, J. F. 1922 A, 63, 71, 75.
Pouchet and Chabry 1884 A, 181 (Globiceps).
Reche, O. 1905 B, 190, fig. 22.
Reynolds, S. H. 1897 A, 354, 463, 506, figs. 67, 93.
Ryder, J. 1885 G, 1014.
1887 B, 442, pls. i, ii.
Sellards, E. H. 1916 B, 107.
Stannius, H. 1850 A, 508 (Delphinus).
Sterling, S. 1910 A, 180.
1910 B, 231.
1910 C, 669.
Taschenberg, O. 1899 A, 4585.
Trouessart, E. L. 1905 A, 771.
True, F. W. 1889 A, 10, 183.
Turner, W. 1909 A, 707.
Van Bambeke, C. 1868 A, 41 (Delphinus).
Van Beneden and Gervais 1880 A, 554, pls. li-liii.
Weber, M. 1886 A.
1904 A, 580.
Weber and Abel 1928 A, 369, 394, fig. 225.
Wilder, B. 1872 B, 316.
Winge and Miller 1921 A, 34, 70 (Globiceps).
Zittel, K. A. 1893 A, 161, 175, figs. 127, 128.

Globicephala bæreckeii (Sellards).

Sellards, E. H. 1916 B, 107, pl. xiv (Globicephalus).
Hay, O. P. 1923 A, 20, 378.
Pliocene or Pleistocene; Florida.

LOPHOCETUS Cope. Type *Delphinus calvertensis* Harlan.

Hay, O. P. 1902 A, 590.
Abel, O. 1913 B, 723.
Case, E. C. 1904 D, 25.
Eastman, C. R. 1907 C, 79.
Kellogg, R. 1928 A, 33.
Palmer, T. S. 1904 A, 383, 797.
Trouessart, E. L. 1905 A, 761.
True, F. W. 1908 B, 390.
Weber, M. 1904 A, 574, 579 (Pontoporia).
Winge, H. 1919 A, 135.
Winge and Miller 1921 A, 85.

Lophocetus calvertensis (Harlan).

Hay, O. P. 1902 A, 590.
Case, E. C. 1904 D, 26, pl. xvi, fig. 1.
Eastman, C. R. 1907 C, 80, pls. i-iii; pl. iv, fig. 2; 2 text-figs.
Gervais, P. 1852 A, 188 (Delphinus).
Shattuck, G. B. 1904 A, xciv.
Van Beneden, P. J. 1880 A, 31 (Delphinus).
Upper Miocene (Calvert?); Maryland.

DELPHINODON Leidy. Type *Squalodon mento* Leidy.

Hay, O. P. 1902 A, 591.
Abel, O. 1905 A, 41.
1914 A, 99.
Case, E. C. 1904 D, 27.
Dal Piaz, G. 1917 A, 3-34.
Kellogg, R. 1924 C, 763.
1928 A, 33.
Miller, G. S. 1923 A, 47, 49.
Palmer, T. S. 1904 A, 220, 797.
Stromer, E. 1915 A, 133.
Trouessart, E. L. 1905 A, 762.
True, F. W. 1911 B, 38.
1912 C, 165, 185, 188.
1912 E, 780.
Winge, H. 1919 A, 88.
Winge and Miller 1921 A, 30, 35.
Zittel and Schlosser 1923 A, 492.

Delphinodon? debilis (Leidy).

Hay, O. P. 1902 A, 589 (Squalodon).
Cope, E. D. 1867 C, 144 (Squalodon); 153 (Phocodon).
Kellogg, R. 1922 A, 127 (Squalodon).
1923 A, 3 (Squalodon); 13 (Delphinodon?).
Palacký, J. 1902 C, 256 (Squalodon).
Van Beneden, P. J. 1877 A, 28 (Phoca).
Edisto marl or Upper Miocene; South Carolina.

Delphinodon dividum True.

True, F. W. 1912 C, 188, pls. xvii-xxvi.
Kellogg, R. 1925 C, 3.
  1925 D, 6.
  1927 A, 1-42.
  1928 A, 68.
Lydekker, R. 1913 A, 10.
Stromer, E. 1915 A, 133 (D. leidydividum).
Weber and Abel 1928 A, 408.
  Middle Miocene (Calvert); Maryland.

Delphinodon leidyi (Hay).

Hay, O. P. 1902 A, 591.
Abel, O. 1905 A, 41.
Case, E. C. 1904 D, 29, pl. xvi, figs. 3-5.
Dal Piaz, G. 1917 A, 3.
Kellogg, R. 1922 A, 130.
Shattuck, G. B. 1904 A, xciv.
Trouessart, E. L. 1905 A, 762.
True, F. W. 1911 B, 38 (D. wymani).
  1912 C, 186.
  Middle Miocene (Calvert); Maryland.

Delphinodon mento Cope.

Hay, O. P. 1902 A, 591.
Abel, O. 1905 A, 41.
  1905 E, 94.
Case, E. C. 1904 D, 28, pl. xvii, figs. 1, 2.
Dal Piaz, G. 1917 A, 3.
Shattuck, G. B. 1904 A, xciv.
True, F. W. 1911 B, 38.
  1912 C, 186.
Van Beneden, P. J. 1877 A, 28.
  Middle Miocene (Calvert); Maryland.

Delphinodon venustus (Leidy).

Hay, O. P. 1902 A, 591.
Clark and Miller 1912 A, 167, 168.
  Middle Miocene (Calvert); Virginia.

KENTRIODON Kellogg. Type *K. pernix* Kellogg.

Kellogg, R. 1927 A, 4.
  1928 A, 33, 68.

Kentriodon pernix Kellogg.

Kellogg, R. 1927 A, 4, pls. i-xiv; text-figs. 5-20.
  1928 A, 68, fig. 10.
Weber and Abel 1928 A, 408.
  Middle Miocene (Calvert); Maryland.

DELPHINAVUS Lull. Type *D. newhalli* Lull.

Lull, R. S. 1914 A, 211.
Kellogg, R. 1928 A, 33, 63.
Winge, H. 1919 A, 137.
Winge and Miller 1921 A, 87.
Zittel and Schlosser 1923 A, 492.

Delphinavus newhalli Lull.

Lull, R. S. 1914 A, 211, pl. viii; text-figs. 1-7.
Kellogg, R. 1928 A, 63.
Stromer, E. 1915 A, 138 (Delphinurus).
  Lower Miocene; California.

DELPHINUS Linnæus. Type *D. delphis* Linnæus.

Hay, O. P. 1902 A, 593.
Abel, O. 1902 B, 518.
  1909 A, 248.
  1909 D, (225) ("delphin").
  1912 F, 198, 513, 668.
  1915 A, 415 ("delphin").
  1921 A, 203, fig. 63.
Anderson, R. J. 1908 A, 547 ("dolphin").
Anthony, R. 1912 A ("dauphin").
Arldt, T. 1911 A, 217.
Beddard, F. E. 1900 A, 253, 314, figs. 9, 32.
  1902 A, 377.
Bertelli, D. 1909 A, 158, fig. 3.
Beyer, H. 1908 A, 82 ("delphin").
Boenninghaus, G. 1904 A, 283, fig. 5.
Bouvier, L. E. 1889 B, 302.
Branca, W. 1908 C, 392 ("delphine").
Bronn, H. G. 1848 A, 408.
  1849 A, 702.
Burlet, H. M. 1917 A, 376.
Cleland, J. 1863 A, 120 ("dolphin").
Cuvier, F. 1836 A, 122.
Cuvier, G. 1805 A.
  1825 A, v, pt. 1, 295, 304, pl. xxi.
Denker, A. 1902 A, 431, 438.
Doran, A. H. G. 1878 A, 459, pl. lxiii.
Eastman, C. R. 1906 E, 96, pl. iii, fig. 32.
Eimer, G. H. T. 1901 A, 159, 191 ("delphine").
Elliot, D. G. 1901 A, 27.
Eschricht, D. F. 1849 A, 1.
Fuchs, H. L. 1914 A, 29 ("delphin").
Gervais, P. 1852 A, 147.
  1859 A, 301.
Giebel, C. G. 1855 A, 84, pl. xxxvii.
  1883 A, pls. xxxviii, lxxiv.
Gottlieb, H. 1914 A, 211.
Gray, J. E. 1846 A, 36, pls. x, xv-xxvi.
  1863 A, 200.
  1870 B, 391.
Guérin, R. 1874 A, 71.
Guldberg, G. 1894 A, 93.
Hanke, H. 1914 A, 500.
Hasse and Schwarck 1870 A, 145.
Heilprin, A. 1887 A, 342.
Hennicke, C. 1902 A, 160.
Kampfen, P. N. 1905 A, 638.
Kehrer, F. A. 1896 A, 357, fig. 39.
Kellogg, R. 1924 C, 756.
  1928 A, 33, 36, 63.
Klaauw, C. J. 1924 B, 601.
Knox, R. 1831 A, 405.
Köstlin, O. 1844 A.
Kükenthal, W. 1908 A, 614.
  1908 C, 242, fig. 1.
  1909 A, 547.
  1909 B, 9.
Larger, R. 1913 A, 721.
Leboucq, H. 1889 A, 573.
Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 278.

Lockington, W. N. 1884 A, 189.
Lönnberg, E. 1910 B, 221.
  1911 A, 23.
  1911 C, 14.
Lucae, J. C. 1875 A, 393.
Lull, R. S. 1914 A, 211.
Lydekker, R. 1909 D, 38, figs. 27, 28.
Mayer, A. F. 1849 A, 583.
Meckel, J. F. 1825 A.
Miller, G. S. 1923 A, 11, 27, pl. v, fig. 4.
  1924 C, 508.
Mivart, St. G. 1871 B, 376.
Nopcsa, F. 1926 A, 637, text-fig. 2.
Osborn, H. F. 1910 B, 317, 562.
Owen, R. 1845 B, 350, pl. lxxxviii, fig. 2.
  1868 A, 876.
  1869 E, 17.
Palacký, J. 1902 C, 258.
Palmer, T. S. 1904 A, 221, 792.
Pander and Alton 1827 A, 5, pl. i.
Peter, K. 1924 B, 497, figs. 11, 12 ("meerschweine").
Pouchet and Chabry 1884 A, 181 ("dauphin").
Reche, O. 1905 B, 198, fig. 25.
Rehs, J. 1914 A, 41.
Retzius, A. 1837 A, 491, pl. xxii, fig. 4.
  1849 A, 671.
Reynolds, S. H. 1897 A, 357, 448, 462.
Schlesinger, G. 1909 A, (141, 142).
Schwalbe, G. 1904 A, 207.
Steinmann, G. 1908 A, 247, fig. 155.
Sterling, S. 1910 A, 189, fig. 5.
  1910 B, 231.
Symington, J. 1905 A, 107.
Toldt, C. 1905 A, 343, figs.
Trouessart, E. L. 1905 A, 765.
Turner, W. 1909 A, 700, figs. 4-6.
Van Bambeke, C. 1868 A, 22.
Wagner, R. 1843 A ("delphin").
Wallisch, W. 1922 A, 533, fig. 3 ("delphin").
Weber, M. 1886 A.
  1904 A, 555, 574, 577, 580, fig. 411.
Weber and Abel 1928 A, 358, 395, fig. 217.
Wilder, B. 1872 B, 316.
  1875 A, 107.
Winge, H. 1919 A, 91.
Winge and Miller 1921 A, 36.

Delphinus sp. indet.

Hay, O. P. 1902 A, 594.
Ducatel, J. T. 1837 A, 10, 11, 25, 34. Miocene (Calvert); Maryland.
Lyell, C. 1845 B. I, 258, pl. v, figs. 4, 5 (Delphinus). Miocene; Massachusetts.

PHOCÆNA Cuvier. Type *Delphinus Phocœna* Linnæus.

Cuvier, G. 1817, Nouv. Dict. Nat., éd. 2, IX, 163.
Allen, J. A. 1881 H, 399-562.
Palmer, T. S. 1904 A, 532, 793.
True, F. W. 1889 A, 117, pls. xxxv-xxxvii.
Weber, M. 1904 A, 574, 577, 579.
Weber and Abel 1928 A, 394, 408.

Phocæna occidua Jordan and Gilbert.

Jordan and Gilbert 1919 A, 59, pl. ix, fig. 2; pl. xxviii, figs. 1, 3 (Syn.? of Delphinus occiduus Leidy.
Palmer, W. 1922 A, 70 (P. occiduus).
Pliocene (Merced); California.

AGABELUS Cope. Type *A. porcatus* Cope.

Hay, O. P. 1902 A, 593.
Beddard, F. E. 1900 A, 306.
Case, E. C. 1904 D, 9.
Kellogg, R. 1928 A, 33.
Palmer, T. S. 1904 A, 83, 797.
Steinmann, G. 1912 B, 725.
Trouessart, E. L. 1905 A, 762.
True, F. W. 1912 E, 780.

The family position of this genus is not well known.

Agabelus porcatus Cope.

Hay, O. P. 1902 A, 593.
Rhoads, S. N. 1903 A, 248.
  Upper Miocene; New Jersey.

TRETOSPHYS Cope. Type *T. gabbii* Cope.

Cope, E. D. 1868 I, 186, 190.
Hay, O. P. 1902 A, 591 (Priscodelphinus).
Kellogg, R. 1925 D, 7.
  1928 A, 34.

Tretosphys gabbii Cope.

Hay, O. P. 1902 A, 591 (Priscodelphinus).
Abel, O. 1901 A, 61 (Priscodelphinus).
Case, E. C. 1904 D, 9, pl. x, fig. 6 (Priscodelphinus).
Kellogg, R. 1925 D, 7.
Shattuck, G. B. 1904 A, xciv (Priscodelphinus).
  Middle Miocene (Calvert); Maryland.

BELOSPHYS Cope. Type *B. spinosus* Cope.

Cope, E. D. 1875 H, 364.
Hay, O. P. 1902 A, 592 (Ixacanthus, in part).
Kellogg, R. 1925 C, 2.
  1928 A, 33.

Belosphys atropius (Cope).

Hay, O. P. 1902 A, 592 (Ixacanthus).
Abel, O. 1901 A, 61 (Priscodelphinus).
Case, E. C. 1904 D, 18, pl. xiii, figs. 5, 6 (Ixacanthus).
Kellogg, R. 1927 A, 4 ("atropius").
Shattuck, G. B. 1904 A, xciv (Ixacanthus).
  Middle Miocene (Calvert); Maryland.

Belosphys conradi (Cope).

Hay, O. P. 1902 A, 592 (Ixacanthus).
Abel, O. 1901 A, 61 (Priscodelphinus).
Case, E. C. 1904 D, 16 (Ixacanthus).
Clark and Miller 1912 A, 167, 168 (Ixacanthus).
Kellogg, R. 1927 A, 4 ("conradi").
Shattuck, G. B. 1904 A, xciv (Ixacanthus).
Middle Miocene (Calvert); Maryland.

Belosphys spinosus (Cope).

Hay, O. P. 1902 A, 592 (Ixacanthus).
Abel, O. 1901 A, 61 (Priscodelphinus).
Case, E. C. 1904 D, 17, pl. xiii, figs. 2-4 (Ixacanthus).
Kellogg, R. 1925 C, 8 (Ixacanthus).
1927 A, 4 ("spinosus").
Shattuck, G. B. 1904 A, xciv (Ixacanthus).
Middle Miocene (Calvert); Maryland.

ACRODELPHIS Abel. Type *Champsodelphis letochæ* Brandt.

Abel, O. 1899 A, 18.
1900 A, 850.
1905 A, 130.
1912 F, 467.
Eastman, C. R. 1907 C, 84, 85.
Kellogg, R. 1923 A, 33.
Trouessart, E. L. 1906, Rev. crit. Paléozool., x, 205.
True, F. W. 1912 E, 781.
Zittel and Schlosser 1911 A, 408.
1923 A, 491.

Acrodelphis sp. indet.

True, F. W. 1912 E, 781.
Middle Miocene (Calvert); Maryland.

CHAMPSODELPHIS Gervais. Type *Delphinus macrogenius* Fischer.

Hay, O. P. 1902 A, 590.
Abel, O. 1899 A, 8.
1900 A, 839, 840 (Champsodelphis).
1901 A, 47.
1905 A, 130 (Syn. of Acrodelphis).
1905 E, 91.
1913 C, 212.
Brandt, J. F. 1873 A, 262.
Cabrera, A. 1926 B, 405.
Capellini, G. 1887 A, 106.
Du Bus, B. 1872 A, 498.
Gervais, P. 1852 A, 152 pl. xli, fig. 5.
1859 A, 311, pl. xli, fig. 5 (Squalodon grateloupii).
Kellogg, R. 1924 C, 762.
1925 D, 4.
1928 A, 33, 67.
Miller, G. S. 1923 A, 48.
Pictet, F. J. 1853 A, 383.
Reche, O. 1905 B, 183.
Rovereto, C. 1915 A, 141 (Campsodelphis).
Trouessart, E. L. 1905 A, 758.
True, F. W. 1908 B, 388.
Van Beneden and Gervais 1880 A, 482, 496, pls. lvii, lix, lx.
Winge, H. 1919 A, 88, 136.
Winge and Miller 1921 A, 30, 35, 86.
Zittel and Schlosser 1911 A, 408 (Syn. of Acrodelphis).
1923 A, 490 (Syn. of Cyrtodelphis), 491 (Syn. of Acrodelphis).

Champsodelphis? acutidens (Cope).

Hay, O. P. 1902 A, 590.
Abel, O. 1901 A, 61 (Priscodelphinus).
Middle Miocene (Calvert); Maryland.

RHABDOSTEUS Cope. Type *R. latiradix* Cope.

Hay, O. P. 1902 A, 593.
Beddard, F. E. 1900 A, 306.
Kellogg, R. 1924 C, 763.
Palmer, T. S. 1904 A, 603, 797.
Trouessart, E. L. 1905 A, 763.
True, F. W. 1908 A, 24.
1912 E, 780.
Winge, H. 1919 A, 135.
Winge and Miller 1921 A, 85.

Rhabdosteus latiradix Cope.

Hay, O. P. 1902 A, 593.
Case, E. C. 1904 D, 24, pl. xv, figs. 1-4, 5?.
Gregory and Kellogg 1927 A, 4.
Kellogg, R. 1925 C, 1.
Shattuck, G. B. 1904 A, xciv.
True, F. W 1908 A, 24, pl. vi.
Middle Miocene (Calvert); Maryland.

CYRTODELPHIS Abel. Type *Delphinorhynchus sulcatus* Gervais.

Unless otherwise indicated the authors, as cited, use for this genus the name *Schizodelphis*.

Abel, O. 1899 A, 11, 12 (Cyrtodelphis).
1900 A, 839, 846, 859 (Cyrtodelphis).
1901 A, 47, pl. i, fig. 3; pl. ii, fig. 3; pl. v, figs. 1, 2 (Cyrtodelphis).
1902 A, 184 (Cyrtodelphis).
1905 A, 124, 126 (Cyrtodelphis).
1909 A, 247.
1912 G, 60.
Brandt, J. F. 1873 A, 253.
Cabrera, A. 1926 B, 405.
Capellini, G. 1887 A, 106.
Dal Piaz, G. 1905 A, 253, pls. xviii-xxi; text-figs. 17-26 (Cyrtodelphis).
Eastman, C. R. 1907 A, 83.
Gervais, P. 1861, Mém. Acad. Montpellier, v, pt. 1, 125.
Kellogg, R. 1924 C, 762, 763, 764.
1925 C, 3, 4.
1928 A, 33 (Cyrtodelphis).
Miller, G. S. 1923 A, 48 (Cyrtodelphis).
Palmer, T. S. 1904 A, 623, 798.
Paquier, V. 1894 A, 10.
Pompeckj, J. F. 1922 A, 88.
Probst, J. 1886 A, 118.
Trouessart, E. L. 1905 A, 758.

True, F. W. 1908 A, 451.
1909 C, 451.
Van Beneden and Gervais 1880 A, 503, pl. lvii.
Winge, H. 1919 A, 88, 136.
Winge and Miller 1921 A, 30, 35.
Zittel, K. A. 1890 A, 173.

Cyrtodelphis crassangulum (Cope).

Cope, E. D. 1895 A, 148 (Cetotherium).
Hay, O. P. 1902 A, 599 (Cetotherium leptocentrum, in part).
Case, E. C. 1904 D, 12, pl. xi, figs. 1-3 (Priscodelphinus?).
Gregory and Kellogg 1927 A, 4 (Schizodelphis).
Kellogg, R. 1925 C, 3 (Priscodelphinus?).
Lydekker, R. 1909 C, 458 (Priscodelphinus crassirostis).
Shattuck, G. B. 1904 A, xciv (Priscodelphinus?).
True, F. W. 1908 D, 451, 452, pls. lix, lx (Schizodelphis).
1910 B, 26 (Schizodelphis).
1912 E, 781 (Schizodelphis).
Middle Miocene (Calvert); Maryland.

Cyrtodelphis depressus (Allen).

Allen, G. M. 1921 A, 145, pl. ix, figs. 1-5 (Schizodelphis).
Case, E. C. 1904 D, 24, pl. xv, fig. 1 (Rhabdosteus latiradix. This species?).
Leidy, J. 1869 A, 434 (Tetrosphys grandævus, in part. This species?).
True, F. W. 1908 A, 28, figs. 1-3 (Priscodelphinus sp. This species?).
Miocene or Pliocene (Bone Valley); Florida: Miocene?; New Jersey?.

POMATODELPHIS Allen. Type *P. inæqualis* Allen.

Allen, G. M. 1921 A, 148.
Kellogg, R. 1928 A, 33, 67.

Pomatodelphis inæqualis Allen.

Allen, G. M. 1921 A, 148, pls. x, xi.
Kellogg, R. 1924 C, 765.
Miocene or Pliocene (Bone Valley); Florida.

EURHINODELPHINÆ Trouessart.

Trouessart, E. L. 1905 A, 761.
Abel, O. 1901 A, 60 (Eurhinodelphidæ).
1902 B, 523 ("eurhinodelphiden").
1905 E, 94 (Eurhinodelphidæ, Eurhinodelphinæ).
1909 A, 251 ("eurhinodelphiden").
1912 F, 467 ("eurhinodelphiden").
1913 B, 723.
1914 A, 96.
1919 A, 767.
Kellogg, R. 1925 C, 6.
Kellogg, R. 1928 A, 62.
Lydekker, R. 1909 D, 29.
Miller, G. S. 1923 A, 34, 40, 49 (Eurhinodelphininæ).
Palmer, T. S. 1904 A, 796.
True, F. W. 1908 B, 388, 391.
1912 E, 779.
Winge and Miller 1921 A, 31, 35 (Eurhinodelphini).
Zittel and Schlosser 1911 A, 408.
1923 A, 491.

ARGYROCETUS Lydekker. Type *A. patagonicus* Lydekker.

Lydekker, R. 1894 B, 125.
Cabrera, A. 1926 B, 405.
Lydekker, R. 1893 D, art. 2, 10.
Palmer, T. S. 1904 A, 120, 797.
Winge and Miller 1921 A, 31, 35.
Zittel and Schlosser 1911 A, 408.
1923 A, 491.

Argyrocetus? sp. indet.

True, F. W. 1912 E, 781.
Middle Miocene? (Calvert?); Maryland?

CETERHINOPS Leidy. Type *C. longifrons* Leidy.

Hay, O. P. 1902 A, 590.
Kellogg, R. 1925 C, 10.
1926 A, 7.
1928 A, 33.
Palmer, T. S. 1904 A, 174, 798.
Trouessart, E. L. 1905 A, 756.
True, F. W. 1907 A, 7 (Syn? of Squalodon).

Ceterhinops longifrons Leidy.

Hay, O. P. 1902 A, 590.
Kellogg, R. 1923 A, 3, 23.
1924 C, 761.
Upper Miocene (Edisto marl); South Carolina.

EURHINODELPHIS Du Bus. Type *E. cocheteuxii* Du Bus.

Du Bus, B. 1867 A, 569.
Abel, O. 1901 C, 316.
1902 B, 519.
1904 A, 184.
1905 E, 94.
1907 G, 27, fig. 27.
1909 A, 241.
1912 F, 467, 515, fig. 354.
1912 G, 60.
1913 B, 724, fig. 28.
Abel, O. 1921 A, 175.
1923 B, 271.
Beddard, F. E. 1900 A, 50, 51, fig. 11.
Brandt, J. F. 1873 A, 284.
Cabrera, A. 1926 B, 405.
Capellini, G. 1887 A, 108.
Eastman, C. R. 1907 C, 87.
Kellogg, R. 1924 C, 763, 764.
1925 C, 1-40.
1927 B.

Kellogg, R. 1928 A, 33, 46, 62, 63.
Lönnberg, E. 1911 A, 73 (Eurinodelphis).
Matsumoto, H. 1926 B, 21, pl. ix; text-fig. 3.
Miller, G. S. 1923 A, 26, 49.
Pompeckj, J. F. 1922 A, 58.
  1925 A, 17.
Reche, O. 1905 B, 183.
Steinmann, G. 1912 B, 725.
Stromer, E. 1915 A, 137.
Trouessart, E. L. 1905 A, 751.
True, F. W. 1908 B, 388 (Eurinodelphis).
  1909 C, 453.
  1910 B, 22, 24.
  1912 E, 780, 781.
Van Beneden and Gervais 1880 A, 492.
Weber and Abel 1928 A, 407, fig. 255.
Winge, H. 1919 A, 89.
Winge and Miller 1921 A, 31, 35.
Zittel and Schlosser 1911 A, 408.
  1923 A, 491.

Eurhinodelphis bossi Kellogg.

Kellogg, R. 1925 C, 1-40, pls. i-xvii; text-figs. 1-4.
Gregory and Kellogg 1927 B, 5.
Kellogg, R. 1926 A, 16.
  1928 A, 65, fig. 9.
True, F. W. 1912 E, 781 (E. sp. indet.).
  Middle Miocene (Calvert); Maryland.

Eurhinodelphis sp. indet.

Hanna, G. D. 1923 A, 65 (Eurhinodelphia). Miocene?; California.
Hay, O. P. 1927 D, 173, 174. Miocene?; California.

IXACANTHUS Cope. Type *I. cœlospondylus* Cope.

Hay, O. P. 1902 A, 592.
Abel, O. 1909 A, 253.
Case, E. C. 1904 D, 15.
Kellogg, R. 1925 C, 2 (Ixacanthus).
  1928 A, 33.
Lydekker, R. 1892 C, 562.
Palmer, T. S. 1904 A, 355, 797.
Trouessart, E. L. 1905 A, 762.
True, F. W. 1912 E, 780.
Van Beneden, P. J. 1880 A, 31 (Xacanthus).

Ixacanthus cœlospondylus Cope.

Hay, O. P. 1902 A, 592.
Case, E. C. 1904 D, 19, pl. xiv, figs. 1-2.
Rhoads, S. N. 1903 A, 249.
Shattuck, G. B. 1904 A, xciv.
  Middle Miocene (Calvert); Maryland.

PRISCODELPHINUS Leidy. Type *P. harlani* Leidy.

Hay, O. P. 1902 A, 591.
Abel, O. 1901 A, 61.
  1909 A, 253.
  1912 F, 467.
  1914 A, 96.
Beddard, F. E. 1900 A, 306.
  1902 A, 384.
Capellini, G. 1887 A, 107.
Du Bus, B. 1872 A, 492.
Heilprin, A. 1887 A, 345.
Kellogg, R. 1925 C, 2.
  1928 A, 33.
Miller, G. S. 1923 A, 49.
Trouessart, E. L. 1905 A, 762.
True, F. W. 1908 A, 28, figs. 1-3.
  1908 D, 449, 451.
  1909 C, 447.
  1912 E, 780.
Zittel and Schlosser 1923 A, 491.

Priscodelphinus grandævus Leidy.

Hay, O. P. 1902 A, 591.
Abel, O. 1901 A, 61.
Case, E. C. 1904 D, 15, pl. xii, fig. 1.
Kellogg, R. 1924 B, 27.
  1925 C, 7.
Reche, O. 1905 B, 183, fig. 20.
Shattuck, G. B. 1904 A, xciv.
Stromer, E. 1908 B, 155.
True, F. W. 1908 A, 24, 28.
  1908 D, 450.
  Middle Miocene (Calvert); Maryland.

Priscodelphinus harlani Leidy.

Hay, O. P. 1902 A, 591.
Abel, O. 1901 A, 61.
Kellogg, R. 1925 C, 2 (P. harlini).
  1927 A, 4 ("harlani").
Rhoads, S. N. 1903 A, 247.
True, F. W. 1908 D, 450.
Van Beneden, P. J. 1880 A, 31.
  Upper Miocene; New Jersey.

Priscodelphinus lacertosus Cope.

Hay, O. P. 1902 A, 591.
Abel, O. 1901 A, 61.
Case, E. C. 1904 D, 11.
Rhoads, S. N. 1903 A, 247.
Shattuck, G. B. 1904 A, xciv.
  Middle Miocene (Calvert); Maryland.

Priscodelphinus stenus Cope.

Hay, O. P. 1902 A, 593 (Ixacanthus).
Abel, O. 1901 A, 61.
Case, E. C. 1904 D, 16, pl. xiii, fig. 1 (Ixacanthus).
Kellogg, R. 1927 A, 3, text-figs. 3, 4.
Shattuck, G. B. 1904 A, xciv (Ixacanthus).
  Middle Miocene (Calvert); Maryland.

Priscodelphinus uræus Cope.

Hay, O. P. 1902 A, 592.
Abel, O. 1901 A, 61.
Case, E. C. 1904 D, 13.
Rhoads, S. N. 1903 A, 247.
Shattuck, G. B. 1904 A, xciv.
  Middle Miocene (Calvert and St. Mary's); Maryland: Miocene; New Jersey.

Priscodelphinus sp. indet.

Allen, G. M. 1921 A, 145 (Schizodelphis depressus?).

Matson and Clapp 1909 A, 136. Miocene? (Peace Creek); Florida.

Spencer, J. W. 1895 A, 137.
True, F. W. 1908 A, 24, fig. 1.

STENODELPHININÆ Miller.

Miller, G. S. 1923 A, 34, 40, 51.
Gregory and Kellogg 1927 A, 1.

LONCHODELPHIS G. M. Allen. Type *Delphinus occiduus* Leidy.

Allen, G. M. 1924 B, 194.
Kellogg, R. 1928 A, 34.

Lonchodelphis occiduus (Leidy).

Hay, O. P. 1902 A, 594 (Delphinus).
Allen, G. M. 1924 B, 194.
Eastman, C. R. 1907 C, 93; pl. iv, fig. 1 (Delphinus).
Gregory and Kellogg 1927 A, 1.
Pliocene (Merced); California.

STENODELPHIS Gervais. Type *Delphinus blainvillei* Gervais.

Gervais, P. 1847, D'Orbigny's Voy. dans l'Amér. Mérid., IV, pt. 2, Mamm. 31-32.
Abel, O. 1909 A, 252.
1909 B, 264.
Allen, G. M. 1921 B, 241.
Beddard, F. E. 1900 A, 180, 301.
Cabrera, A. 1926 B, 392.
Eastman, C. R. 1907 C, 79, 82.
Flower, W. H. 1867 A, 106, pl. xxviii (Pontoporia).
Gregory and Kellogg 1927 A, 3, 4 (Pontoporia, a syn.).
Kampfen, P. N. 1905 A, 643.
Kellogg, R. 1926 A, 8.
1928 A, 34, 71.
Lönnberg, E. 1910 B, 230, 250.
Lönnberg, E. 1911 A, 36.
Miller, G. S. 1923 A, 23, 25, 28, 35, pl. vi, fig. 2.
Rovereto, C. 1915 A, 141 (Syn. of Pontoporia).
Schlosser, M. 1899 I, 346.
Trouessart, E. L. 1905 A, 758.
True, F. W. 1908 A, 29.
1909 B, 329.
Winge and Miller 1921 A, 26, 28, 45 (Syn. of Pontoporia).

Stenodelphis sternbergi Gregory and Kellogg.

Gregory and Kellogg 1927 A, 1, figs. 1-3.
Kellogg, R. 1928 A, 71.
Pleistocene; California.

DELPHINAPTERINÆ Gill.

Gill, T. 1871 B, 124.
Hay, O. P. 1902 A, 594.
Elliot, D. G. 1901 A, 18.
Flower, W. H. 1867 A, 115 (Beluginae).
Frassetto, F. 1903 A, 244.
Kampfen, P. N. 1905 A, 636 (Delphinapteridæ).
Kellogg, R. 1923 A, 63.
Lönnberg, E. 1911 C, 14 (Delphinapteridæ).
Miller, G. S. 1923 A, 34, 40, 51.
Reche, O. 1905 B, 185 (Delphinapteridæ).
Rousseau, L. F. E. 1856 A, 13 ("delphinaptères").
Trouessart, E. L. 1905 A, 771.
True, F. W. 1908 B, 391
Weber, M. 1904 A, 577, 579 (Delphinapteridæ).
Zittel and Schlosser 1911 A, 408 (Beluginæ).
1923 A, 491 (Beluginæ).

DELPHINAPTERUS Lacépède. Type *D. leucas* Pall.

Lacépède, B. G. E. 1804, Hist. Nat. Cétacés, Tableau etc., XLI, 243-249.
Hay, O. P. 1902 A, 594.
Abel, O. 1901 B, 311 (Beluga).
1909 A, 243 (Beluga).
1912 F, 467 (Beluga).
1914 A, 95 (Beluga).
Arldt, T. 1907 D, 38 (Beluga).
Beddard, F. E. 1900 A, 242, 314, fig. 16 (Beluga).
1902 A, 372.
Bouvier, L. E. 1889 B, 302 ("delphinaptère").
Braun, M. 1908 A, 402 (Beluga).
Doran, A. H. G. 1878 A, 460, pl. lxiii.
Eastman, C. R. 1906 E, 87.
Elliot, D. G. 1901 A, 19.
Eschricht, D. F. 1849 A, 7 (Beluga).
1869 A, 13, pl. viii.
Flower, W. H. 1867 A, 96 (Beluga).
Frassetto, F. 1903 A, 244, pl. xii, fig. 72.
Freund, L. 1906 A, 116 (Beluga).
Giebel, C. G. 1855 A, 84, pl. xxxv, figs. 10, 13.
Giebel, C. G. 1883 A, pl. xxxviii.
Gray, J. E. 1846 A, 29 (Beluga).
1863 A, 200 (Delphinapterus); 201 (Beluga).
1870 B, 392 (Beluga).
Guérin, R. 1874 A, 74.
Heilprin, A. 1887 A, 342.
Hennicke, C. 1902 A, 160 (Beluga).
Huxley, T. H. 1863 F, 636, fig. 63.
Kampfen, P. N. 1905 A, 637.
Kellogg, R. 1925 C, 2, 16.
1928 A, 34, 69.
Kükenthal, W. 1893 B, 56, pl. iii (Beluga).
1909 A, 556 (Beluga).
Leboucq, H. 1889 A, 574 (Beluga).
Leunis and Ludwig 1883 A, 278 (Beluga).
Lockington, W. N. 1884 A, 184.
Lönnberg, E. 1910 B, 251.
1911 A, 30, 74.
1911 C, 1-18.
McIntosh, — 1911 A, 89.
Miller, G. S. 1923 A, 27, 51.

Miller, G. S. 1924 C, 513.
Osburn, R. C. 1903 A, 656.
1906 A, 452, 454.
Oswald, F. 1911 A, 410.
Palmer, T. S. 1904 A, 220, 792.
Pander and Alton 1827 A, 5 (Beluga).
Perkins, G. H. 1910 A, 150.
Probst, J. 1886 A, 130 (Delphinus, Beluga).
Pycraft, W. P. 1909 A, 204 (Beluga).
Rovereto, C. 1915 A, 141 (Beluga).
Ryder, J. 1887 B, pl. ii (Beluga).
Sclater, P. L. 1897 A, 353.
Steinmann, G. 1908 A, 246.
1912 B, 725.
Sterling, S. 1910 A, 180.
1910 C, 669.
Trouessart, E. L. 1905 A, 771.
True, F. W. 1908 B, 389.
1909 B, 329.
Wallace, A. R. 1876 A, II, 209 (Beluga).
Watson and Young 1879 A, 393.
Weber, M. 1904 A, 573, 577, 579.
Weber and Abel 1928 A, 216, 393.
Weber and Burlet 1927 A, 133 (Beluga).
Wiman, C. 1913 A, 153.
Winge, H. 1919 A, 89, 104.
Winge and Miller 1921 A, 31, 35, 46, 73, 80.

Delphinapterus leucas Pallas.

Pallas, P. S. 1776, Reise Russ. Reiches, III, 85, footnote.
Hay, O. P. 1902 A, 594.
Abel, O. 1901 A, 35.
1909 A, 248 (Beluga).
1912 F, 196 (Beluga).
Allen, J. A. 1903 A, 119.
Ardley, E. 1916 A, 490 (Beluga catodon).
Beddard, F. E. 1900 A, 244.
1902 A, 373.
Braun, M. 1907 A, 402.
1909 A, 409.
Brown, R. 1868 A, 551 (Beluga catodon).
Burlet, H. M. 1917 A, 381.
Coleman, A. P. 1901 C, 217, 219, 224 (Beluga catodon).
Collett, R. 1906 A, 16.
Cuvier, F. 1836 A, 199, pl. xvi (Phocæna).
Cuvier, G. 1825 A, v, pt. 1, 297, 302, pl. xxii.
Eastman, C. R. 1906 E, 89, figs. A-F.
Elliot, D. G. 1901 A, 19, pl. v.
Fischer, E. 1903 A, 709 (Beluga).
Fischer, J. B. 1829 A, 513 (Delphinus).
Gray, J. E. 1846 A, 29 (Beluga catodon).
Hay, O. P. 1923 A, 483.
Hitchcock, E. Jr. 1861 A, 165.
Honeyman, D. 1888 A, 139 ("Beluga." This species?).
Hubbard, O. P. 1887 A, 242 ("whale." This species?).
Kükenthal, W. 1888 A, 638, figs. 1, 2 (Beluga).
1900 A, 224, fig. 9.
Kunze, A. 1912 A, 608, figs. N, O.
Lambe, L. M. 1904 C, 30, 39, 50.
1910 C, 273.
1912 A, 14.
1914 F, 299.
Lockington, W. N. 1884 A, 184.
Lönnberg, E. 1910 B, 225, 252, fig. 6.
1911 C, 1-18, figs. 1-4.
Lydekker, R. 1909 D, 32.
Major, C. J. F. 1899 A, 500 ("Delphinapterus").
Miller, G. S. 1924 C, 513.
Newton, E. T. 1891 A, 79.
Osburn, R. C. 1906 A, pl. ix, fig. 35.
Owen, R. 1845 B, 351 (Delphinus).
1868 A, 877 (Delphinus).
Palacký, J. 1902 C, 258.
Pander and Alton 1826 A, 10, pl. vii (Delphinus).
Reche, O. 1905 B, 186, 216.
Selwyn, A. R. C. 1887 A, 46 (D. catodon).
Stansfield, J. 1915 A, 67 (Beluga catodon).
Steinmann, G. 1908 A, 246, fig. 153.
Struthers, J. 1895 A, 124, pl. iv.
Taschenberg, O. 1899 A, 4538.
Taylor, F. B. 1908 A, 652 ("whale").
Trouessart, E. L. 1905 A, 772.
True, F. W. 1909 B, 325, pl. xxiii.
Turner, W. 1909 A, 711.
Watson and Young 1879 A, 393, pls. vii, viii.
Weber, M. 1886 A.
Whiteaves, J. F. 1906 A, 171.
Wyman, J. 1863 A, 603, pl. xiii (Beluga).
Recent; Arctic seas south to Cape Cod: Pleistocene (Late); Canada.

Delphinapterus orcina Cope.

Hay, O. P. 1902 A, 594.
Miocene; North Carolina.

Delphinapterus ruschenbergeri (Cope).

Hay, O. P. 1902 A, 592 (Priscodelphinus).
Abel, O. 1901 A, 61 (Priscodelphinus).
Case, E. C. 1904 D, 10, pl. x, figs. 7, 8. (Priscodelphinus).
Kellogg, R. 1927 A, 1, text-figs. 1, 2.
Shattuck, G. B. 1904 A, xciv (Priscodelphinus).
Middle Miocene (Calvert); Maryland.

Delphinapterus vermontanus (Thompson).

Hay, O. P. 1902 A, 594.
Ami, H. M. 1897 A, 25 (Beluga).
Baldwin, S. P. 1894 A, 173 (Beluga).
Billings, E. 1870 A, 438 (Beluga).
Dana, J. D. 1863 F, 919 (Beluga).
1896 A, 983, fig. 1561.
Dawson, J. W. 1872 B, 403 (Beluga).
1872 C, 99 (Beluga).
1894 C, 177, 268 (Beluga).
Hager, A. D. 1861 A, 938, fig. 340.
Hay, O. P. 1923 A, 483.
Hitchcock, E. 1861 B, 162.
Kellogg, R. 1925 D, 7.
Packard, A. S. 1867 A, 261 (Beluga).
Peet, C. E. 1904 A, 462 (Beluga).
Perkins, G. H. 1908 A, 76, pls. x-xvi.
1910 A, 161, pls. v-viii.
1910 B, 55, pls. iii, iv.
Whiteaves, J. F. 1906 A, 171.
1907 A, 214 (Beluga).
Pleistocene (Late Wisconsin); Vermont: Ontario; Quebec.

Delphinapterus sp. indet.

Hay, O. P. 1923 A, 289. Pleistocene (Late Wisconsin); New Brunswick.
Matthew, G. F. 1879 A, 23 (Beluga sp.). Pleistocene (Leda clay); New Brunswick.

MONODONTINÆ Miller.

Miller, G. S. 1923 A, 34, 40, 51.
Gray, J. E. 1821 A, 310 (Monodontidæ).
Kellogg, R. 1928 A, 63.
Terra, P. 1911 A, 343 (Monodontidæ).

Monodon Linnæus. Type *M. monoceros* Linnæus.

Hay, O. P. 1902 A, 594.
Abel, O. 1901 B, 311.
    1909 A, 251.
    1912 F, 467, 686.
    1914 A, 95.
Beddard, F. E. 1902 A, 373.
Braun, M. 1908 A, 404.
Bronn, H. G. 1848 A, 741.
    1849 A, 702.
Cuvier, F. 1825 A, 245, pl. cii ("narwals").
    1836 A, 230.
Cuvier, G. 1805 A.
Doran, A. H. G. 1878 A, 461, pl. lxiii.
Elliot, D. G. 1901 A, 18.
Eschricht, D. F. 1849 A, 7.
Fischer, J. B. 1829 A, 516.
Gervais, P. 1859 A, 319.
Giebel, C. G. 1855 A, 84.
    1883 A, 271.
Giglioli, E. H. 1872 A, 10.
Gray, J. E. 1846 A, 29.
    1863 A, 201 (Monoceros).
Guérin, R. 1874 A, 73.
Heilprin, A. 1887 A, 344.
Hennicke, C. 1902 A, 160 ("narwal").
Howes, G. B. 1903 A, 329, fig. 3.
Kellogg, R. 1928 A, 34.
Köstlin, O. 1844 A.
Kükenthal, W. 1909 A, 556.
Larger, R. 1913 A, 727.
Leboucq, H. 1889 A, 574.
Leche, W. 1900 A, 1027.
Leunis and Ludwig 1883 A, 280.
Lockington, W. N. 1884 A, 184.
McIntosh, —— 1911 A, 90.
Martins, C. 1857 A, 69 ("narval").
Meckel, J. F. 1825 A.
Miller, G. S. 1923 A, 26, 27, 29, 51.
    1924 C, 514.
Osburn, R. C. 1906 A, 454.
Owen, R. 1868 A, 893, fig. 220.
Palmer, T. S. 1904 A, 431, 793.
Perkins, G. H. 1910 A, 150.
Pictet, F. J. 1853 A, 384.
Retzius, A. 1849 A, 670.
Reynolds, S. H. 1897 A, 357, 427.
Rovereto, C. 1915 A, 141.
Ryder, J. 1887 B, 466.
Sclater, P. L. 1897 A, 353.
Smith, G. E. 1903 A, 329, fig. 3.
Sterling, S. 1910 A, 180.
    1910 B, 231.
Trouessart, E. L. 1905 A, 772.
True, F. W. 1908 B, 389.
Wagner, R. 1843 A.
Weber, M. 1886 A.
    1904 A, 573, 577, 579.
Weber and Abel 1928 A, 389 (table), 393.
Weber and Burlet 1927 A, 133.
Wherry, G. 1902 A, 974 ("narwhal").
Winge, H. 1919 A, 90, 94.
Winge and Miller 1921 A, 31, 35, 46, 80.

Monodon monoceros Linnæus.

Hay, O. P. 1902 A, 594.
Abel, O. 1901 A, 34.
    1901 B, 311.
    1902 B, 518.
    1909 A, 248.
Beddard, F. E. 1902 A, 373.
Brandt and Woldrich 1887 A, 121.
Brown, R. 1868 A, 552.
Cuvier, F. 1836 A, 230, 380, pl. xvii.
Cuvier, G. 1825 A, v, pt. 1, 319, 349 ("narval").
Elliot, D. G. 1901 A, 19, fig. 6.
Fischer, J. B. 1829 A, 516.
Gervais, P. 1859 A, 319.
Gray, J. E. 1846 A, 29.
    1870 B, 392.
Hay, O. P. 1923 A, 19, 289.
Kellogg, R. 1928 A, 203, fig. 23.
Knox, R. 1831 A, 401, pl. xv, figs. 1-6.
Kükenthal, W. 1900 A, 227, fig. 12.
Larger, R. 1913 A, 729.
Lataste, F. 1887 A, 267.
Lockington, W. N. 1884 A, 184, fig. 100.
Lönnberg, E. 1911 A, 30, fig. ("narhval").
Lydekker, R. 1909 D, 33, fig. 12.
Major, C. J. F. 1899 A, 500 ("Monodon").
Miller, G. S. 1924 C, 514.
Mulder, C. 1835 A, 65, pl. ii.
Newton, E. T. 1882 A, 109, pl. ix, fig. 2.
    1891 A, 78.
Osburn, R. C. 1906 A, pl. viii, figs. 30, 32.
Palacký, J. 1902 C, 259.
Pander and Alton 1826 A, 10, pl. vi.
    1827 A, 3, pl. v ("narwal").
Perkins, G. H. 1908 A, 102, pls. xvii-xx ("Monodon").
    1910 A, 150, pls. i-iv.
Porsild, M. P. 1922 A, 8, pl. i.
Reche, O. 1905 B, 185, 212.
Rousseau, L. F. E. 1856 A, 15.
Ryder, J. 1887 B, 466 (M. communis).
Smith, G. E. 1903 B, 50, fig. 3 ("Monodon").
Sterling, S. 1910 B, 235.
Taschenberg, O. 1899 A, 4626.
Turner, W. 1909 A, 712, fig. 10.
Van Bambeke, C. 1868 A, 46, fig.
Weber, M. 1904 A, 566, fig. 421.
Weber and Abel 1928 A, 371, 377, 385, figs. 227, 234, 239.
Ziegler, H. E. 1901 A, 237 ("narhal").
Recent; Arctic seas: Pleistocene; New Brunswick, Ontario.

PLATANISTIDÆ Flower.

Flower, W. H. 1867 A, 113.
Hay, O. P. 1902 A, 590.
Abel, O. 1900 A, 839 ("platanistiden").
1901 A, 35.
1902 B, 523 ("platanistiden").
1905 A, 43.
1905 E, 94.
1912 F, 467.
1913 C, 221.
1914 A, 96 (Platanistinæ).
Allen, G. M. 1921 B, 240.
Anderson, J. 1879 A, 417-550, pls. xxv-xli; text-figs. 14-20 (Platanista).
Arldt, T. 1907 D, 674.
Beddard, F. E. 1900 A, 298, 318.
1902 A, 380.
Case, E. C. 1904 D, 5, 8.
Cuvier, F. 1836 A, 251 ("platanistes").
Dal Piaz, G. 1916 A, 4.
Doran, A. H. G. 1878 A, 462.
Eastman, C. R. 1907 C, 86.
Kampfen, P. N. 1905 A, 643.
Kellogg, R. 1928 A, 34, 174.
Lockington, W. N. 1884 A, 190.
Lydekker, R. 1892 C, 562.
Miller, G. S. 1923 A, 33, 40, 53.
Pompeckj, J. F. 1922 A (Platiniste).
Probst, J. 1886 A, 117 (Delphinorhynchidæ).
Reche, O. 1905 B, 176.
Steinmann, G. 1908 A, 248 ("platanistiden").
1912 B, 725 ("platanistiden").
Sterling, S. 1910 B, 231.
Stromer, E. 1908 A, 83.
1908 B, 174 ("platanistiden").
Trouessart, E. L. 1905 A, 756.
True, F. W. 1912 E, 779.
Van Beneden and Gervais 1880 A, 454, pls. xxx-xxxiii ("platanistes").
Weber, M. 1904 A, 574, 576, 578, 579, text-fig. 426 (Platanista, Platanistidæ).
Weber and Abel 1928 A, 389 (table), 392, 407.
Winge, H. 1919 A, 68, 83, 86, 104, 120.
Winge and Miller 1921 A, 11, 25, 28, 45.

PLATANISTINÆ.

Hay, O. P. 1902 A, 590.
Eastman, C. R. 1907 C, 86.
Flower, W. H. 1867 A, 114.
Gray, J. E. 1846 A, 24, 45 (Platanistina).
Guérin, R. 1874 A, 67.
Trouessart, E. L. 1905 A, 757.

ZARHACHIS Cope. Type *Z. flagellator* Cope.

Hay, O. P. 1902 A, 592.
Beddard, F. E. 1900 A, 306 (Zarrhachis).
1902 A, 384 (Zarrhachis).
Kellogg, R. 1924 B, 2.
1924 C, 763.
1926 A, 2.
1928 A, 34, 46, 174.
Palmer, T. S. 1904 A, 713, 798.
Reche, O. 1905 B, 183.
Trouessart, E. L. 1905 A, 762.
True, F. W. 1912 E, 780.

Zarhachis flagellator Cope.

Hay, O. P. 1902 A, 592.
Case, E. C. 1904 D, 20, pl. xiv, fig. 3.
Kellogg, R. 1924 B, 2, pls. i-iv; pl. vii, figs. 2, 4, 6, 8; pl. viii, figs. 2, 4, 5; pls. ix-xviii.
1924 C, 763.
1925 D, 4.
1926 A, 2, pls. i-v.
Kellogg, R. 1928 A, 174, 202, figs. 12, 22.
Shattuck, G. B. 1904 A, xciv.
Middle Miocene (Calvert); Maryland.

Zarhachis tysonii Cope.

Hay, O. P. 1902 A, 592.
Case, E. C. 1904 D, 22.
Kellogg, R. 1924 B, 3.
Shattuck, G. B. 1904 A, xciv.
Middle Miocene (St. Mary's); Maryland.

Zarhachis velox Cope.

Hay, O. P. 1902 A, 592.
Kellogg, R. 1924 B, 3.
Rhoads, S. N. 1903 A, 248.
Upper Miocene (Kirkwood); New Jersey.

Platanistid sp. indet.

Sellards, E. H. 1915 D, 32. Pliocene; Florida.

PHYSETERIDÆ Gray.

Gray, J. E. 1821 A, 310.
Hay, O. P. 1902 A, 595 (Physeteridæ, Physeterinæ).
Abel, O. 1902 A, 170 ("physétérides").
1905 A, 39, 51.
1905 B, 204 ("physétérides").
1905 C. 375 ("physétérides").
1905 E, 84 ("physeteriden").
1909 A, 247 ("physeteriden").
1912 F, 466, 511 ("physeteriden").
1913 B, 723.
1914 A, 94.
1914 C, 389.
1919 A, 763.
Arldt, T. 1907 D, 673.
Beddard, F. E. 1900 A, 182, 318.
1902 A, 362 (Physeteridæ); 363 (Physeterinæ).
Burmeister, H. 1868 A, 308 (Catodontidæ); 309 (Physeteridæ).
Cabrera, A. 1926 B, 406.
Carus, V. 1875 A, 171 (Physeterina).
Case, E. C. 1904 D, 5, 30.
Cuvier, F. 1836 A, 259 ("cachalots").
Eastman, C. R. 1906 E, 76, 95.
Elliot, D. G. 1901 A, 14.
Gervais, P 1859 A, 284 ("physétéridés").
Gray, J. E. 1863 A, 199 (Catodontidæ).
1868 C, 246 ("spermwhales").
1870 B, 391.

Guérin, R. 1874 A, 65.
Hoernes, R. 1912 A, 661.
Jaekel, O. 1908 B, 464 ("physeteriden").
Kampfen, P. N. 1905 A, 645.
Kellogg, R. 1925 B, 2.
1928 A, 34, 176.
Lockington, W. N. 1884 A, 191.
Lydekker, R. 1887 B, 13.
Miller, G. S. 1923 A, 29, 33, 40, 44.
Owen, R. 1866 B, 419.
1869 D, 30.
Palacký, J. 1902 C, 257 ("physeteriden").
Pictet, F. J. 1853 A, 386 ("physétérides").
Pompeckj, J. F. 1922 A, 84 ("physeteriden").
Reche, O. 1905 B, 162 (Physeteridæ, Physeterinæ).
Ritchie and Edwards 1913 A, 166.
Roger, O. 1896 A, 80 (Physeterinæ).
Steinmann, G. 1908 A, 237 (Physeteridæ).
1912 B, 721 (Physeteridæ).
Stromer, E. 1908 B, 170.
Terra, P. 1911 A, 344.
Trouessart, E. L. 1905 A, 772 (Physeteridæ, Physeterinæ).
True, F. W. 1908 B, 387, 388, 391 (Physeteridæ); 391 (Physeterinæ).
1912 E, 779.
Van Beneden, P. J. 1877 B, 851 ("cachalots").
Van Beneden and Gervais 1880 A, 302 ("cachalots").
Weber, M. 1904 A, 576, 578 (Physeteridæ, Physeterinæ).
Weber and Abel 1928 A, 389 (table), 392.
Winge, H. 1919 A, 68, 95, 101.
Winge and Miller 1921 A, 11, 37, 46, 87 (Physeteridæ, Physeterini).
Zittel and Schlosser 1911 A, 407 (Physeteridæ, Physeterinæ).
1923 A, 490 (Physeteridæ, Physeterinæ).

AULOPHYSETER Kellogg. Type *A. morricei* Kellogg.

Kellogg, R. 1927 B, 4.
1928 A, 34, 46.

Aulophyseter morricei Kellogg.

Kellogg, R. 1927 B, 4, pls. i-ix.
1928 A, 177, fig. 14.
Middle Miocene (Temblor); California.

IDIOPHYSETER Kellogg. Type *I. merriami* Kellogg.

Kellogg, R. 1925 B, 16, 18.
1928 A, 34.

Idiophyseter merriami Kellogg.

Kellogg, R. 1925 B, 16, 18, pl. i; pl. ii, fig. 2; pl. iii, fig. 2; text-figs. 1-4.
1927 B, 6, 11.
Middle Miocene (Temblor); California.

ORYCTEROCETUS Leidy. Type *O. quadratidens* Leidy.

Hay, O. P. 1902 A, 595 (Orycterocetus); 596 (Hypocetus).
Allen, G. M. 1921 A, 154.
Arldt, T. 1907 D, 82 (Hypocetus).
Case, E. C. 1904 D, 32 (Orycterocetus); 30 (Hypocetus).
Kellogg, R. 1928 A, 34.
Palmer, T. S. 1904 A, 483, 795.
True, F. W. 1912 E, 780.

Orycterocetus cornutidens Leidy.

Hay, O. P. 1902 A, 595.
Case, E. C. 1904 D, 32, pl. xvii, fig. 7 (O. crocodilinus).
Shattuck, G. B. 1904 A, xciv (O. crocodilinus?).
Middle Miocene (Calvert); Maryland, North Carolina.

Orycterocetus mediatlanticus (Cope).

Hay, O. P. 1902 A, 596 (Hypocetus).
Allen, G. M. 1921 A, 154, pl. ix, fig. 6; pl. xii.
Case, E. C. 1904 D, 30, pl. xvii, figs. 6*a*, 6*b* (Hypocetus mediatlanticus); explan. pls. p. 9 (H. atlanticus).
Kellogg, R. 1924 C, 765 (Diaphorocetus).
1925 B, 10, 11, 13, 31 (Paracetus, Orycterocetus).
1927 B, 7 (Orycterocetus).
1928 A, 177 (Orycterocetus).
Miller, G. S. 1923 A, 45 ("Paracetus").
Sellards, E. H. 1915 D, 102, 103, fig. 32 ("cetacean").
Shattuck, G. B. 1904 A, xciv (Hypocetus).
Trouessart, E. L. 1898 A, 1053.
True, F. W. 1908 B, 387 ("Paracetus").
Miocene (St. Mary's); Maryland: Miocene or Pliocene (Bone Valley); Florida.

Orycterocetus quadratidens Leidy.

Hay, O. P. 1902 A, 596.
Clark and Miller 1912 A, 167, 168.
Gidley, J. W. 1911 A, 436 (Physeter vetus? or Physeterula neolassicus?).
Hay, O. P. 1923 A, 370.
Kellogg, R. 1925 B, 10, 11.
Upper Miocene; Virginia, North Carolina.

HOPLOCETUS Gervais. Type *H. crassidens* Gervais.

Gervais, P. 1852 A. 161, explan. pl. xx.
Hay, O. P. 1902 A, 596.
Cabrera, A. 1926 B, 406.
Gervais, P. 1859 A, 318, pl. xx.
Kellogg, R. 1925 B, 1, 2, 5.
Kellogg, R. 1928 A, 34.
Palmer, T. S. 1904 A, 331, 745.
Trouessart, E. L. 1905 A, 772.
Winge, H. 1910 A, 1.
1919 A, 69, 100, 103.

Winge and Miller 1921 A, 42.
Zittel and Schlosser 1911 A, 407 (Syn. of Scaldicetus).
1923 A, 490 (Syn. of Scaldicetus).

Hoplocetus obesus Leidy.

Hay, O. P. 1902 A, 596.
Abel, O. 1905 A, 59 (Syn. of Scaldicetus caretti).
Kellogg, R. 1925 B, 8, 9.
Pleistocene? (Ashley River); South Carolina.

BALÆNODON Owen. Type *B. physaloides* Owen.

Owen, R. 1846 B, 536.
Hay, O. P. 1902 A, 595 (Hoplocetus).
Abel, O. 1905 A, 52 (Scaldicetus, Dinoziphius as syn.).
1905 E, 90 (Scaldicetus).
1912 G, 67 (Scaldicetus).
1913 B, 723 (Scaldicetus).
1919 A, 763, fig. 571*b* (Scaldicetus).
Du Bus, B. 1867 A, 568 (Scaldicetus).
Kellogg, R. 1925 B, 1, 2 (Balænodon).
1928 A, 34.
Lydekker, R. 1887 A, 58.
1887 B, 14 (Scaldicetus, a syn.).
Owen, R. 1860 E, 342, fig. 107.
Palmer, T. S. 1904 A, 131, 794 (Balænodon); 620, 796 (Scaldicetus).
True, F. W. 1908 B, 387 (Scaldicetus).
Van Beneden and Gervais 1880 A, 342, pl. xx.
Winge and Miller 1921 A, 42 (Syn. of Hoplocetus).
Zittel, K. A. 1893 B, 251 (Syn. of Balænoptera).
Zittel and Schlosser 1911 A, 407 (Scaldicetus).
1923 A, 490 (Scaldicetus).

Balænodon physaloides Owen.

Owen, R. 1846 B, 536, figs. 219, 226, 227.
Abel, O. 1905 A, 56, 57, 59, figs. 1, 2 (Scaldicetus caretti).
Lydekker, R. 1886 B, 318.
1887 A, 58.
Newton, E. T. 1891 A, 66, pl. vii, figs. 2-3*b*.
Trouessart, E. L. 1898 A, 1054 (Hoplocetus).
1905 A, 773 (Hoplocetus); 774 (Physeter? carolinensis).
Van Beneden and Gervais 1880 A, 343.
Miocene: European; American?

Balænodon sp. indet.

Abel, O. 1919 A, 763 (Scaldicetus). Miocene and Pliocene; Europe and North America.
Hanna. G. D. 1923 A, 65, pl. ix, figs. *a*, *b*, *d* (Scaldicetus). Miocene?; California.
True, F. W. 1908 B, 387 (Scaldicetus). Miocene of North America.

GRAPHIODON Leidy. Type *G. vinearius* Leidy.

Hay, O. P. 1902 A, 590.
Kellogg, R. 1928 A, 34.
Palmer, T. S. 1904 A, 299, 798.
True, F. W. 1907 A, 7.
1912 E, 780.

Graphiodon vinearius Leidy.

Hay, O. P. 1902 A, 590.
Merrill, G. P. 1907 A, 37.
Miocene (Gay Head); Massachusetts.

ONTOCETUS Leidy. Type *O. emmonsi* Leidy.

Hay, O. P. 1902 A, 596.
Kellogg, R. 1925 A, 3.
1925 B, 2, 12.
1928 A, 34.
Palmer, T. S. 1904 A, 475, 795.

Ontocetus emmonsi Leidy.

Hay, O. P. 1902 A, 596.
Emmons, E. 1860 A, 219, fig. 187.
Kellogg, R. 1925 A, 6.
1925 B, 11, 12.
Miocene; North Carolina.

Ontocetus oxymycterus Kellogg.

Kellogg, R. 1925 A, 2, pls. i, ii.
1925 B, 30, pl. vii; pl. ix, fig. 1.
1927 B, 11.
1928 A, 179.
Matsumoto, H. 1926 B, 17, pl. viii; text-fig. 1 (This species?).
Middle Miocene or later; California, Japan?.

DINOZIPHIUS Leidy. Type *D. carolinensis* Leidy.

Hay, O. P. 1902 A, 595 (Physeter, in part).
Abel, O. 1905 A, 56, 57 (Syn. of Balænodon).
Allen, G. M. 1926 A, 463 (Physeter).
Kellogg, R. 1925 B, 8, 9.
1928 A, 34.

Dinoziphius carolinensis Leidy.

Hay, O. P. 1902 A, 595 (Physeter).
Abel, O. 1905 A, 56, 57, figs. 1, 2 (Syn. of Balænodon physaloides).
Kellogg, R. 1925 B, 8, 9.
Trouessart, E. L. 1905 A, 773 (Physeter).
Upper Miocene; South Carolina.

PHYSETER Linnæus. Type *P. catodon* Linnæus.

Hay, O. P. 1902 A, 595.
Abel, O. 1907 G, 26, fig. 26.
1908 B, 171.
1909 A, 243.
1912 F, 466, 511, 692.
1914 C, 389.

Arldt, T. 1911 A, 217.
Beddard, F. E. 1900 A, 192, 318, figs. 9, 24, 25.
1919 A, 129.
1923 B, 1-32.
Bennett, F. D. 1840 A, 153.
Bronn, H. G. 1849 A, 702.
Burlet, H. M. 1917 A, 381.
Cuvier, F. 1825 A, 246, pl. ciii ("cachalots").
1836 A, 259.
Cuvier, G. 1803 A, 166 ("cachalot").
1805 A.
1825 A, v, pt. 1, 328, 342, pl. xxiv ("cachalot").
Deinse, A. B. 1916 B, 521, figs. 1-4.
Doran, A. H. G. 1878 A, 456, pl. lxii.
Elliot, D. G. 1901 A, 14.
Eschricht, D. F. 1849 A, 7.
Fischer, J. B. 1829 A, 517.
Flower, W. H. 1867 A, 105.
Gervais, P. 1852 A, 156, 188.
1859 A, 284.
Giebel, C. G. 1855 A, 85.
1883 A, pls. lxviii, lxxiv.
Giglioli, E. H. 1872 A.
Gray, J. E. 1846 A, 21 (Catodon); 53 (Physeter).
1863 A, 199.
1870 B, 391.
Guérin, R. 1874 A, 65.
Harmer, S. F. 1924 A, 554.
Heilprin, A. 1887 A, 342.
Houssay, F. 1910 A, 15.
Huxley, T. H. 1863 F, 635, fig. 62.
Kampfen, P. N. 1905 A, 645.
Kehrer, F. A. 1896 A, 357, fig. 36.
Kellogg, R. 1925 A, 5.
1925 B, 118.
1927 B.
1928 A, 34, 46, 179, 198.
Köstlin, O. 1844 A.
Kükenthal, W. 1908 A, 610.
1914 B, 84, pl. iii *b*, figs. 34-36; pl. iii *c*, fig. 38.
Larger, R. 1913 A, 708, 727.
Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 281.
Lillie, D. G. 1910 A, 788.
Lockington, W. N. 1884 A, 191.
Lönnberg, E. 1911 C, 18 ("cachalot").
1911 D, 11, figs. 8-10.
McIntosh, —— 1911 A, 91.
Meckel, J. F. 1825 A.
Miller, G. S. 1923 A, 25, 32, 35, pl. iii, fig. 5; pl. vi, fig. 1.
1924 C, 507.
Mivart, St. G. 1871 B, 376.
Newton, E. T. 1886 B, 320.
Owen, R. 1845 F, 37.
1866 A, 363.
Palacký, J. 1902 C, 257.
Palmer, T. S. 1904 A, 536, 796.
Pander and Alton 1827 A, 5.
Pictet, F. J. 1853 A, 386.
Pompeckj, J. F. 1922 A, 67, 71, 88.
Rafinesque, C. S. 1832 B, 112 (Nephrosteon).
Reynolds, S. H. 1897 A, 426, 444, 448, 464, 505.
Ritchie and Edwards 1913 A, 166.
Rousseau, L. F. E. 1856 A, 16.
Ryder, J. 1887 B, 429.
Sclater, P. L. 1897 A, 352.
Steinmann, G. 1908 A, 244, fig. 149.
Trouessart, E. L. 1905 A, 775.
True, F. W. 1909 C, 455.
Van Beneden, P. J. 1888 B, 11.
Wallace, A. R. 1876 A, I, 112.
Weber, M. 1886 A.
1904 A, 573, 576, 578.
Weber and Abel 1928 A, 366, 393, fig. 223.
Wilder, B. 1872 B, 316.
Winge, H. 1919 A, 101.

Physeter catodon Linnæus.

Unless otherwise indicated, the writers as cited employ the name *P. macrocephalus.*

Hay, O. P. 1902 A, 595.
Abel, O. 1901 B, 311.
1902 B, 523.
1908 A, 475, fig. 20.
1908 B, 171, figs. 44-51.
1912 F, 196, fig. 134.
1919 A, 765, fig. 573.
1926 B, 409.
Beddard, F. E. 1902 A, 363.
1919 A, 129, pl. xxiii; text-figs. 1-13.
1923 A, 641.
1923 B, 1, figs. 1-13.
Bennett, T. D. 1836 A, 127.
1837 A, 39 ("cachalot").
1840 A, 153, fig.
Cuvier, F. 1836 A, 286, pl. xix.
Eastman, C. R. 1906 E, 83.
Elliot, D. G. 1901 A, 15, fig. 4.
Fischer, J. B. 1829 A, 517.
Gervais, P. 1852 A, 156.
1859 A, 285.
Giebel, C. G. 1855 A, 85, pl. xxxv, figs. 10, 12.
Gray, J. E. 1846 A, 21 (Catodon).
Hentschel, E. 1910 A, 417, figs. 1, 2.
Kampfen, P. N. 1905 A, 645.
Kellogg, R. 1925 B, 17, 25, 29 (P. catodon).
1927 B, 6 (P. catodon).
1928 A, 30, 176, 180, fig. 14.
Lockington, W. N. 1884 A, 191, figs. 96-99, 106, 107.
Lönnberg, E. 1910 B, 226 (P. catodon).
1911 A, 32 (P. catodon).
Lull, R. S. 1917 A, 477.
Lydekker, R. 1909 D, 22, fig. 8.
Miller, G. S. 1924 C, 507 (P. catodon).
Moodie, R. L. 1923 B, 228, fig. 21, pl. xlvi.
Newton, E. T. 1886 B, 323, pl. xi.
Owen, R. 1868 A, 900.
1869 D, 35.
Pander and Alton 1827 A, 5, pl. 5.
Reche, O. 1905 B, 162, fig. 10.
Ritchie and Edwards 1913 A, 166, figs. 1-3.
Trouessart, E. L. 1905 A, 775.
Van Beneden, P. J. 1888 B, 11.

Recent in warm seas: Pleistocene?; Louisiana. Not certainly found fossil.

Physeter vetus (Leidy).

Leidy, J. 1869 A, 437 (Catodon).
Hay, O. P. 1902 A, 595.
Berry, E. W. 1917 C, 461.
Clark and Miller 1912 A, 167, 168.

Hay, O. P. 1923 A, 493.
Holmes, F. S. 1860 A, vi, pl. xxiv, figs. 8, 9 ("spermwhale").
Rhoads, S. N. 1903 A, 248.
Pleistocene; South Carolina: Miocene (Calvert); Virginia.

Physeter sp. indet.

Leidy, J. 1869 A, 436 (Catodon vetus). Miocene; Virginia.
1877 A, 217, pl. xxx, figs. 7-11 ("cetacean teeth").
The teeth here described may belong in fact to some other genus or other genera.

Superorder UNGULATA Gray.

Gray, J. E. 1821 A, 305.
Hay, O. P. 1902 A, 601.
Abel, O. 1906 A, 56 ("ungulaten").
1913 B, 729, 730.
1914 A, 57, 121.
1919 A, 787.
1920 A, 430.
Ameghino, F. 1889 A, 1027.
1901 A, 349 ("ongulés").
1902 D, 419 ("ongulés").
1905 A, 19 ("ungulados").
Arldt, T. 1907 A, 239, 243.
1907 B, 452 ("ungulaten").
1907 D, 687.
Baird, S. F. 1876 A, 305.
Bardeleben, K. 1904 A, 111 ("hufthiere").
Bardenfleth, K. S. 1913 A, 84.
Beddard, F. E. 1902 A, 195.
Bensley, B. A. 1901 C, 252.
Beyer, H. 1908 B ("huftiere").
Black, N. 1900 A, 12.
Blainville, H. M. D. 1819 A, 41 ("ongulés").
Bluntschli, H. 1912 B, 365 ("huftiere").
1913 A, 42 ("ungulaten").
Bonaparte, C. L. 1832 A, 291.
Bradley, O. C. 1906 B, 529 ("ungulates").
Braus, H. 1906 A, 265 ("ungulaten").
Broom, R. 1911 C, 319.
Burmeister, H. 1879 B, 450.
Case, E. C. 1898 C, 830.
Caush, D. E. 1904 A, 157.
Chandler, A. C. 1914 B, 134.
Clark and Sonntag 1926 A, 481, 482.
Cope, E. D. 1885 BB, 72 (Diplarthra).
1885 EE, 607 ("hoofed animals").
Delafontaine, M. 1875 A, 171 ("ongulés").
Dependorf, T. 1907 C, 108 ("ungulaten").
Disselhorst, R. 1906 A, 321 ("ungulaten").
Dollo, L. 1889 E, 188 ("ongulés").
1889 G, 675 ("ongulés").
Doran, A. H. G. 1878 A, 419.
Eggeling, H. 1904 A, 99 ("hufthiere").
Eimer, G. H. T. 1901 A, 258 ("huftiere").
Elliot, D. G. 1901 A, 33.
Fairchild, H. L. 1894 A, 206.
Fischer, E. 1903 A, 694 ("ungulaten").
Flower, W. H. 1873 B, 96.
1892 A, 12.
Frassetto, F. 1903 A, 183.
1915 A ("ungulati").
Frech, F. 1906 A, 497 ("huftiere").
Frey, H. 1911 A, 416.
Fuchs, H. 1909 B, 142.
1914 A, 32 ("ungulaten").
Gadow, H. 1902 B, 347.
Gaudry, A. 1901 B, 100 ("ongulés").
Geoffroy St. Hilaire, E. F. 1824 F, 80 ("mammifères à sabots").
Gervais, P. 1852 A, 42 ("ongulés").
1853 B, 50 ("ongulés").
Ghigi, A. 1900 B, 99 ("ungulati").
Giebel, C. G. 1878 C, 853 ("ungulaten").
1883 A ("hufthiere").
Gottlieb, H. 1914 A, 189.
Gray, J. E. 1825 B, 342.
Gregory, W. K. 1910 A, 18, 30, 342-353, 354-406, 409, 466.
1912 F, 269 ("ungulates").
1922 A, 110 ("ungulates").
1925 A, 751 ("ungulates").
Gregory and Camp 1918 A.
Haeckel, E. 1868 A, 476 ("ungulaten").
1873 A, 544, 554.
Hay, O. P. 1912 D, 579.
1914 A, 143.
Hayek, H. 1926 A, 177 ("huftiere").
Heilprin, A. 1887 A, 373.
Hensel, R. 1879 A, 554 ("ungulaten").
Hilzheimer, M. 1913 A, 570.
Hoernes, R. 1886 A, 665.
Hogben, L. T. 1919 A, 74, 75 ("ungulates").
Hrdlička, A. 1920 A, 463 ("ungulates").
Huxley, T. H. 1856 A, 53.
1856 B, 191 ("ungulates").
1863 F, 580.
1868 C, 314.
1870 F, 537.
1880 E, 459 ("ungulates").
Jaekel, O. 1911 A, 237 (Ungulati).
Kampfen, P. N. 1905 A, 573.
Kingsley, J. S. 1925 A, 213, 296.
Knottnerus-Meyer, T. 1907 A, 1, 96, 101.
Koken, E. 1893 B, 481, 500 ("hufthiere").
1901 B, 222 ("hufthiere").
Laloy, L. 1907 A, 584 ("ongulés").
Lankester, E. R. 1908 A, 327.
Lataste, F. 1887 A, 266 ("ongulés").
Lavocat, A. 1885 A, 47 ("ongulés").
Leche, W. 1887 A.
1900 A, 1032.
1907 A, 50.
Lobley, J. L. 1908 A, 195.
Loomis, F. B. 1910 C, 294.
Lull, R. S. 1917 B, 295, 322, 338.
Lydekker, R. 1902 B, 375 ("ungulates").
1903 D, 123 ("ungulates").
1907 B, 1.
1913 B, 1.
Major, C. J. F. 1880 A, 21 ("ungulaten").
1899 B, 66.
Matthew, W. D. 1904 D, 816.
1910 G, 152 ("ungulates").
1915 A, 187 ("ungulates").
Mettam, A. E. 1894 A, 341 ("ungulates").
Middleton, J. 1844 A, 286.
Mivart, St. G. 1878 B, 282 ("hoofed beasts").

O'Harra, C. C. 1910 A, 88.
1920 A, 90.
Osborn, H. F. 1898 S, 684.
1899 J, 415.
1907 G, 67, 76, 83, 101, 163.
1909 D, 86 (Herbivora); 137 (Ungulata).
1910 D, 737.
1912 D, 596 ("hoofed mammals").
1925 C, 749 ("ungulates").
1925 F, 961 ("hoofed animals").
Owen, R. 1857 E.
1858 A, 26.
1868 A, 913.
Palacký, J. 1902 B, 142 ("ungulaten").
1903 B, 303.
Paquier, V. 1894 A, 20 ("ongulés").
Paramore, R. H. 1910 A, 1460.
Parker and Haswell 1897 A, 452, 504.
Pavlow, M. 1903 B, 200 ("ongulés").
Popowa, N. 1913 A, 280 ("ungulaten").
Puccioni, N. 1908 A, 41.
Rafinesque, C. S. 1815 A, 52 (Podoplia).
Reynolds, S. H. 1897 A, 501, 514, 519, 558.
Rosenberg, A. 1873 A, 120.
Roth, S. 1903 A, 1-36.
Schlosser, M. 1899 I, 349 ("ungulaten").
1900 C, 133 ("ungulaten").
1903 A, 288 ("ongulés").
Schmidt, O. 1886 A, 126.
Schwalbe, G. 1904 A, 208 ("ungulaten").
Schwarz, E. 1924 A, 419.
Sclater, P. L. 1875 A, 209.
Scott, W. B. 1896 C, 308.
1896 D, 57.
1913 A, 513, 516, 692.
Sedgwick, A. 1894 A, 43 ("ungulates").
Seeley, H. G. 1878 A, 224.
Sefve, I. 1913 A, 362 ("ungulaten").
Smith, G. E. 1907 A, 163 ("ungulate").
Spurrell, H. G. F. 1906 A, 123 (Herbivora).
Steinmann, G. 1907 A, 479.
1909 A, 81 ("huftiere").
Strecker, C. 1887 A, 312 ("hufthiere").
Stromer, E. 1902 B, 559, 561 ("ungulaten").
1912 A, 193.
1924 A, 255 ("huftiere").
Taschenberg, O. 1899 A, 4334.
Terra, P. 1911 A, 305.
Tims, H. W. 1905 B, 1786 ("ungulates").
Tredgold, A. F. 1897 A, 295.
Underhill, B. M. 1910 A, 78 ("ungulates").
Vallois, H. V. 1921 B, 975 ("ongulés").
Van Bemmelen, J. F. 1918 A, 570 ("ungulates").
Van den Broeck, A. J. P. 1912 A, 782.
Van den Broeck, E. 1900 A, 61 ("ongulés").
Wallace, A. R. 1876 A, I, 503; II, 211, 226, 542.
Weber, M. 1886 A, 232, 240.
Weber and Abel 1928 A, 410, 426, 897.
Weber and Burlet 1927 A.
Wilckens, O. 1911 A, 708 ("huftiere").
Wilder, B. 1875 A, 107.
Wincza, H. 1890 A, 647 ("ungulaten").
Winge, H. 1906 A.
Woodward, A. S. 1897 C, 380.
1917 D, lxxi.
Worthmann, F. 1922 A, 307 ("huftiere").
Wortman, J. L. 1902 A, xiii, 45.
1920 A, 16.
1921 A, 181 ("ungulates").
Wright, R. R. 1883 A, 233.
Zietzschmann, O. 1917 A, 434 ("huftiere").
Zittel, K. A. 1895 A, 310 ("ungulates").
1897 A, 133 ("hufthiere").
Zittel and Schlosser 1911 A, 435.
1923 A, 519.

Order CONDYLARTHRA Cope.

Hay, O. P. 1902 A, 601.
Abel, O. 1904 B, 741.
1920 A, 430, 433 (Condylarthra, Protungulata).
1926 H, (160) (Protungulata).
1928 B, 21.
Abel and Cook 1925 A, 33.
Ameghino, F. 1889 A, 1009 (Condilarthra).
1893 D, 15.
1897 B, 261.
1901 A, 375.
1904 B, 52.
1905 C, 351, 403.
1906 A, 293 ("condylarthres").
Andrews, C. W. 1908 D, 45.
Anderson, R. J. 1912 D, 253.
Arldt, T. 1907 A, 241, 244.
Bardenfleth, K. S. 1913 A, 84.
Beddard, F. E. 1902 A, 202.
Behlen, H. 1906 A, 194 ("condylarthren").
Bensley, B. A. 1901 C, 252.
Branca, W. 1907 A, 9.
Brown, A. E. 1904 B, 55.
Case, E. C. 1898 C, 831.
Chardin, P. T. 1920 A, 1161 ("condylarthrés").
Clark and Sonntag 1926 A.
Cope, E. D. 1885 BB, 73.
Cope, E. D. 1885 EE, 607.
1891 N, 79, 90.
Depéret, C. 1902 A, 324 ("condylarthrés").
1904 B, 16, 23, 43 ("condylarthrés").
1905 C, 703 ("condylarthrés").
1907 B ("condylarthrés").
1908 A, 111.
1912 A, 706 ("condylarthrés").
Earle, C. 1897 B, 311.
Fairchild, H. L. 1894 A, 207.
Fischer, E. 1903 A, 694, 713.
Gawrilenko, A. 1924 A, 222 ("condylarthren").
Granger, W. 1915 A, 329.
Gregory, W. K. 1910 A, 99, 351, 354, 358, 359, 437, 446, 456, 466.
1912 F, 290 ("condylarths").
1920 A, 176, 245.
Gregory and Hellman 1926 A, 11, 12 ("condylarths").
Heilprin, A. 1887 A, 368.
Hescheler, K. 1906 A, 30.
Hilzheimer, M. 1913 A, 567.
Hubrecht, A. A. W. 1897 A, 8.
Jaekel, O. 1911 A, 238 (Condylarthri).
Kampfen, P. N. 1905 A, 627.
Kingsley, J. S. 1925 A, 215.
Koken, E. 1893 B, 481.

Kraglievich, L. 1926 C, 75, 77.
Leche, W. 1887 A.
Lönnberg, E. 1910 B, 238.
1911 A, 59.
Loomis, F. B. 1922 A, 62.
1926 A, 76.
Lull, R. S. 1907 A, 163.
1917 B, 552.
Major, C. J. F. 1899 B, 68.
Matthew, W. D. 1906 B, 358.
1909 C, 92, 94, 102.
1909 D, 333, 551.
1910 G, 156.
1915 A, 256, fig. 28.
1915 E, 311.
1916 I, 109.
1917 A, 577.
1921 D, 212, 214.
1926 C, 154.
1928 B, 948, 968.
Osborn, H. F. 1898 U, 686.
1899 J, 415.
1902 E, 356, fig. 1.
1905 H, 207, fig. 2.
1905 I, 99.
1906 C, 851.
1907 G, 14, 168.
1909 D, 123.
1910 B, 610.
1925 B, 18.
Palacký, J. 1903 B, 304, 306.
Parker and Haswell 1897 A, 455.
Reynolds, S. H. 1897 A, 502, 537, fig. 107.
Schapiro, B. 1913 A, 220.
Schlosser, M. 1898 B, 360, 362, 367.
1899 I, 349.
1900 B, 304.
1902 I, 738, 746.
1904 C, 97 ("condylarthren").
1911 A, 135 ("condylarthren").
1921 A, 135.
Schwarz, E. 1924 A, 419.
Scott, W. B. 1896 C, 308.
1913 A, 678.
Seeley, H. G. 1886 A, 466, 551 (Condylarthra); 466 (Taxeopoda).
Shufeldt, R. W. 1889 D, 24.
Steinmann, G. 1907 A, 486.
1908 A, 233 ("condylarthren").
1912 A, 719.
Stromer, E. 1902 B, 556, 561 ("condylarthren").
1912 A, 208, 244.
Terra, P. 1911 A, 306.
Thacker, A. G. 1922 A, 603.
Trouessart, E. L. 1905 A, 568.
Underhill, B. M. 1910 A, 84.
Weber, M. 1904 A, 586, 588, 691 (Condylarthra); 586 (Protungulata).
Weber and Abel 1928 A, 90, 412, 426, 626 (Protungulata).
Winge, H. 1906 A, 68, 69, 78.
Woodward, A. S. 1898 D, 329, 335.
Woodward, H. 1904 B, 152.
Zierler, F. E. 1905 A, 514.
Zittel, K. A. 1895 A, 310.
1897 A, 133.
Zittel and Schlosser 1911 A, 437.
1923 A, 521, 667.

PHENACODONTIDÆ Cope.

Hay, O. P. 1902 A, 602 (Phenacodontidæ); 650 (Eohyidæ).
Abel, O. 1913 B, 729, 736.
1914 A, 121, 142, 150.
1919 A, 798.
Ameghino, F. 1901 A, 375.
1906 A, 295.
Arldt, T. 1907 A, 244.
1907 D, 673 (Phenacodidæ).
1912 A, 702, 703.
Behlen, H. 1906 A, 194 ("phenacodontiden").
Depéret, C. 1904 B, 43 ("phénacodidés").
1905 C, 703 ("phénacodidés").
Fischer, E. 1903 A, 721.
Granger, W. 1915 A, 329.
Gregory, W. K. 1910 A, 357.
1920 A, 246.
Matthew, W. D. 1909 C, 92, 94, 102.
1909 D, 512.
1914 B, 387.
1915 E, 311.
1921 D, 212, 214.
Osborn, H. F. 1909 D, 133.
1910 B, 110, 111, 138, 172, 546.
Palacký, J. 1903 B, 304 ("phenacodontiden").
Schlosser, M. 1898 B, 362, 367, 370.
1900 B, 304.
Scott, W. B. 1913 A, 457.
Seeley, H. G. 1886 A, 468, 521.
Stehlin, H. G. 1906 A, 637 ("phenacodontiden").
Trouessart, E. L. 1905 A, 573.
Weber, M. 1904 A, 692.
Weber and Abel 1928 A, 426, 629.
Winge, H. 1906 A, 69, 79.
Wortman, J. L. 1921 A, 187 ("phenacodonts").
Zierler, F. E. 1905 A, 514.
Zittel and Schlosser 1911 A, 439.
1923 A, 523, 602, 665, 666.

OXYACODON Osborn and Earle. Type *O. apiculatus* Osborn and Earle.

Hay, O. P. 1902 A, 602.
Haug, E. 1911 A, 1527.
Matthew, W. D. 1909 C, 101.
Palmer, T. S. 1904 A, 491, 812.
Schlosser, M. 1898 B, 364.
1900 B, 303.
Zittel and Schlosser 1911 A, 438.
1923 A, 522.

The position of this genus is uncertain.

Oxyacodon agapetillus (Cope).

Hay, O. P. 1902 A, 602.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Trouessart, E. L. 1904 A, 43.

Paleocene (Puerco); New Mexico.

Oxyacodon apiculatus Osborn and Earle.

Hay, O. P. 1902 A, 602.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Osborn, H. F. 1902 C, 171.
Schlosser, M. 1908 B, 364.
Trouessart, E. L. 1904 A, 43.
Paleocene (Puerco); New Mexico.

TETRACLÆNODON Scott. Type *Mioclænus floverianus* Cope.

Unless otherwise indicated the authors, as quoted, use for this genus the name *Euprotogonia.*

Hay, O. P. 1902 A, 603 (Tetraclænodon).
Abel, O. 1913 B, 736 (Tetraclænodon).
1914 A, 148, fig. 103 (Tetraclænodon).
1926 B, 411.
Ameghino, F. 1901 A, 375.
1904 A, 530.
1905 A, 33.
1905 C, 405.
1906 A, 295.
Beddard, F. E. 1902 A, 204.
Bensley, B. A. 1901 C, 252.
Clark and Sonntag 1926 A, 460, 479.
Depéret, C. 1908 A, 111.
1912 A, 706.
Floderus, M. 1910 A, 97.
Gidley, J. W. 1912 B, 180.
1919 A, 274 (Euprotogonia).
Granger, W. 1915 A, 332, figs. 1, 2 (Tetraclænodon).
1917 A, *passim* (Tetraclænodon); 827 (Euprotogonia).
Gregory, W. K. 1910 A, 354, 437, 446.
1912 F, 270, 288.
1920 A, 245 (Euprotogonia. Tetrachodon, *err. typ.*).
Haug, E. 1911 A, 1528.
Lull, R. S. 1917 B, 554.
Matthew, W. D. 1904 D, 814.
1906 B, 358.
1909 C, 102.
1924 E, 749.
1928 B, 955, fig. 5.
Osborn, H. F. 1898 S, 684.
1902 D, 260, fig. 1.
1903 D, 313.
1907 G, 83, 169, figs. 149-151, 165, 201, 210.
1909 D, 126.
1910 B, 108, 110, 546.
Palacký, J. 1903 B, 306.
Palmer, T. S. 1904 A, 279, 933 (Euprotogonia); 669, 933 (Tetraclænodon).
Petronievics, B. 1921 A, 102.
Schlosser, M. 1898 B, 361, 370.
1898 E, 125.
1900 B, 304, 306.
1902 C, 301.
Scott, W. B. 1913 A, 457, 459.
Simpson, G. G. 1927 B, 10 (Euprotogonia, Tetraclænodon).
1928 A, 1.
Sinclair and Granger 1914 A, 311.
Stehlin, H. G. 1905 A, 555 (Protogonia).
1906 A, 643.
1916 B, 1434 (Protogonia).
Thorpe, M. R. 1927 A, 167.
Trouessart, E. L. 1904 A, 161.
1905 A, 575.
Veith, A. 1912 A, 9.
Weber and Abel 1928 A, 674.
Zittel and Schlosser 1911 A, 439.
1923 A, 523, 543, 550.

Tetraclænodon minor (Matthew).

Hay, O. P. 1902 A, 603.
Ameghino, F. 1904 C, 42 (Euprotogonia).
Gardner, J. H. 1910 A, 730.
Gidley, J. W. 1924 B, 47 (This species?).
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Paleocene (Torrejon); New Mexico: (Fort Union); Montana.

Tetraclænodon puercensis (Cope).

Hay, O. P. 1902 A, 603.
Abel, O. 1913 B, 736, fig. 48.
1919 A, 798, fig. 602.
1920 A, 433, fig. 655.
1922 C, 266, fig. 223.
Ameghino, F. 1904 A, 77, 142 (Euprotogonia).
1904 C, 42.
1905 C, 405, fig. 51.
1906 A, 296, figs. 88, 90 (Euprotogenia).
Douglass, E. 1902 C, 217, 222, pl. xxix, figs. 6-8 (Euprotogonia).
Gardner, J. H. 1910 A, 730 (Tetraclænodon); 733, fig. 9 (Euprotogonia).
Gidley, J. W. 1924 B, 47 (This species?).
Granger, W. 1915 A, 332.
Loomis, F. B. 1926 A, 77, fig. 15.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Osborn, H. F. 1904 F, 17, fig. 5 (Euprotogonia).
1916 E, 506, fig. 4 (Euprotogonia).
Pavlow, M. W. 1925 A, 314 (Phenacodus).
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1898 B, 370 (Protogonia).
1900 B, 305 (Euprotogonia).
1902 C, 300 (Euprotogonia).
1921 A, 119 (Protogonodon).
Trouessart, E. L. 1905 A, 575 (Euprotogonia).
Weber and Abel 1928 A, 631, fig. 428.
Wood, H. E. 1927 B, tab. vii (Euprotogonia).
Zittel and Schlosser 1911 A, 439, fig. 604.
1923 A, 523, fig. 644.
Paleocene (Torrejon); New Mexico: (Fort Union); Montana.

Tetraclænodon subquadratus Cope.

Hay, O. P. 1902 A, 603.
Ameghino, F. 1904 C, 42 (Euprotogonia).
Schlosser, M. 1898 B, 370 (Protogonia).
1921 A, 119 (Protogonodon).
Paleocene (Puerco); New Mexico.

Tetraclænodon sp. indet.

Douglass, E. 1908 D, 23, pl. i, fig. 4; pl. ii, figs. 11-13 (Euprotogonia). Paleocene (Fort Union); Montana.
Gidley, J. W. 1915 E, 538. Paleocene (Fort Union); Montana.
Gidley, J. W. 1918 B, 59. Lower Eocene (Wasatch); Colorado.
1924 B, 47 (This genus?). Eocene (Wasatch); Colorado.
Lloyd and Hares 1915 A, 538 (Euprotogonia).
Lull, R. S. 1915 D, 326 (Euprotogonia). Paleocene (Fort Union); Montana.

EOHYUS Marsh. Type *E. distans* Marsh.

Hay, O. P. 1902 A, 651.
Granger, W. 1915 A, 332 (Syn? of Phenacodus).
Haug, E. 1911 A, 1528.
Schmidt, O. 1886 A, 143.
Scott, W. B. 1913 A, 281.
Trouessart, E. L. 1905 A, 648.
Zittel and Schlosser 1911 A, 473.
1923 A, 523 (Syn. of Periptychus).

Eohyus distans Marsh.

Hay, O. P. 1902 A, 651.
Granger, W. 1915 A, 347.
Matthew, W. D. 1909 C, 94.
Sinclair, W. J. 1914 A, 267.
Lower Eocene (Wasatch); New Mexico.

Eohyus robustus Marsh.

Hay, O. P. 1902 A, 651.
Granger, W. 1915 A, 347.
Matthew, W. D. 1909 C, 94.
Sinclair, W. J. 1914 A, 267 (To Periptychus).
Lower Eocene (Wasatch); New Mexico.

PHENACODUS Cope. Type *P. primævus* Cope.

Hay, O. P. 1902 A, 604 (Phenacodus); 792 (Opisthotomus).
Abel, O. 1904 B, 741.
1913 B, 736.
1914 A, 146.
Ameghino, F. 1904 A, 535.
1904 C, 43.
1905 A, 33.
1905 C, 405.
1906 A, 295.
Arldt, T. 1907 D, 257.
Beddard, F. E. 1902 A, 202.
Bensley, B. A. 1901 C, 252.
Boule, M. 1891 A, 30.
1902 B, 910.
Case, E. C. 1898 C, 831.
Chardin, T. 1922 A, 26, 64, pl. iii.
1927 A, 21.
Clark and Sonntag 1926 A, 454.
Cope, E. D. 1880 U, 149.
Depéret, C. 1904 B, 14, 23 (Phænacodus).
1907 B.
1912 A, 710.
Dollo, L. 1889 I, 681.
1896 A, 83.
Dollo and Chardin 1924 A, 13, 14.
Drevermann, F. 1913 B, 203.
Earle, C. 1897 B, 311.
Fairchild, H. L. 1894 A, 207.
Fisher, E. 1903 A, 695, 698.
Floderus, M. 1910 A, 97.
Flower, W. H. 1892 A, 19, 24, fig. 2.
Gaudry, A. 1896 A, 87, 148.
1901 B, 95, fig. 3; 524, 525
Gidley, J. W. 1912 B, 180.
1918 B, 59.
Granger, W. 1914 A, 202, 204.
1915 A, 332, figs. 1, 2.
1917 A, 827.
Gregory, W. K. 1910 A, 354, 447.
1912 F, 270.
1918 A, 7.
1920 A, 175, 245, fig. 132.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 368, 372.
Hinze, R. 1910 A, 379.
Holland and Peterson 1913 A, 238.
Keuchenius, P. E. 1913 A, 448.
Knipe, H. R. 1912 A, 119, fig.
Koken, E. 1893 B, 483.
Laloy, L. 1907 A, 585.
Lankester, E. R. 1905 A, 141, fig. 96.
Lemoine, V. 1889 A, 239.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1926 A, 76.
Lucas, F. A. 1901 J, 114.
1902 B, 222, fig.
Lydekker, R. 1903 D, 123.
1904 A, 17.
1907 A, 6.
1912 A, 276.
Matthew, W. D. 1903 E, 18, pl.
1909 C, 102.
1915 K, 421.
1917 A, 573.
1921 D, 219.
1924 E, 749.
1926 C, 154.
1928 B, 955, 962, 963, fig. 9.
Matthew and Granger 1917 B, 417 ("Phenacodus").
1923 A, 4.
Natural Science 1898 A, 230.
Osborn, H. F. 1898 S, 684.
1898 V, 206.
1905 N, 235.
1907 G, 170, figs. 135, 150, 198.
1909 D, 133.
1910 A, 205.
1910 B, 627, fig. 71.
1912 G, 236, fig. 3.
Palacký, J. 1903 B, 304, 306 (Phenacodon).
Palmer, T. S. 1904 A, 531, 933 (Phenacodus); 476, 901 (Opisthotomus); 694, 933 (Trispondylus).
Reynolds, S. H. 1897 A, 509, 550, fig. 107.

Rogers, A. F. 1924 A, 545.
Schlesinger, G. 1914 A, 211.
Schlosser, M. 1898 B, 365.
1900 B, 304, 306.
1902 C, 301.
1921 A, 122.
Schuchert and Levene 1927 A, 333, fig.
Scott, W. B. 1913 A, 277, 285, 457.
Seeley, H. G. 1886 A, 468.
Sefve, I. 1915 A, 79.
Shufeldt, R. W. 1889 D, 23.
Simpson, G. G. 1927 B, 10.
Stehlin, H. G. 1905 A, 555.
1906 A, 643, 647.
1916 B, 1454.
Terra, P. 1911 A, 308.
Underhill, B. M. 1910 A, 79, 84.
Veith, A. 1912 A, 9.
Wallace, A. R. 1876 A, I, 138.
Weber, M. 1904 A, 619, 692.
Weber and Abel 1928 A, xxi, 629, 630.
Woodward, A. S. 1897 C, 380.
Wortman, J. L. 1903 A, xv, 431.
Zittel, K. A. 1895 A, 305.
1897 A, 126.
Zittel and Schlosser 1911 A, 439.
1923 A, 523, 665, 666.

Phenacodus astutus (Cope).

Hay, O. P. 1902 A, 792 (Opisthotomus).
Granger, W. 1915 A, 346, 354.
Matthew, W. D. 1909 C, 94.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Phenacodus brachypternus Cope.

Hay, O. P. 1902 A, 604.
Granger, W. 1915 A, 333, 344, 354, figs. 4, 6, 8, 10.
Gregory, W. K. 1922 A, 109, figs. 47, 48.
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 94.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Phenacodus copei Granger.

Granger, W. 1915 A, 333, 344, 354, figs. 3, 5, 7.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Phenacodus flagrans (Cope).

Hay, O. P. 1902 A, 792 (Opisthotomus).
Granger, W. 1915 A, 347 (Opisthotomus flagrans; =?P. primævus).
Matthew, W. D. 1909 C, 94.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico.

Phenacodus intermedius Granger.

Granger, W. 1915 A, 333, 340, 354, figs. 3, 5, 7, 9.
Lower Eocene (Wasatch); Wyoming.

Phenacodus nunienus Cope.

Hay, O. P. 1902 A, 604.
Granger, W. 1915 A, 335, 337 (Syn., in part, of P. primævus).
Matthew, W. D. 1909 C, 94.
Trouessart, E. L. 1905 A, 576.
Lower Eocene (Wasatch); Wyoming.

Phenacodus primævus Cope.

Hay, O. P. 1902 A, 604 (P. primævus, P. omnivorus).
Abel, O. 1913 B, 736, fig. 47.
1914 A, 148, fig. 102.
1919 A, 793, figs. 597, 602.
1920 A, 434, fig. 656.
1922 C, 271, fig. 227.
Ameghino, F. 1904 A, 233, fig. 308.
1906 A, 294, fig. 81 (P. primævus); fig. 82*a* (P. trilobatus).
Beddard, F. E. 1902 A, 196, fig. 110.
Boule, M. 1891 A, 31, fig. 9.
Chardin, T. 1922 A, 26, fig. 11 (P. primævus, P. trilobatus).
Cope, E. D. 1885 EE, 609, fig. 1.
1885 FF, 798, fig. 8.
1891 N, 62, 78, figs. 32*a*, 50.
Cossmann, M. 1901 B, 187.
Drevermann, F. 1913 B, 203, fig.
Gidley, J. W. 1924 B, 47 (This species?).
Granger, W. 1915 A, 333, 335, 338, 354, figs. 3, 5, 7 (P. trilobatus a syn.).
Gregory, W. K. 1912 F, 288.
1920 A, 246.
Leuthardt, F. 1891 A, 97, pl. i, fig. 2.
Loomis, F. B. 1907 B, 357.
Lull, R. S. 1907 A, 163, fig. 3.
1917 B, 552, pl. xxviii (P. resartus).
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 54 (P. primævus, P. omnivorus).
Moodie, R. L. 1923 B, 223.
Neumayer, L. 1906 A, 103.
Osborn, H. F. 1898 S, 684.
1899 K, 273, fig. 4.
1904 F, 16, 27, 47, fig. 7.
1909 D, 39.
1910 B, 126, fig. 40.
1912 G, 235, fig. 2.
Reeside, J. B. 1924 A, 46.
Reynolds, S. H. 1897 A, 510, 525, fig. 107.
Salensky, W. 1903 A, 797.
Schlosser, M. 1902 C, 300.
Scott, W. B. 1913 A, 278, 457, fig. 141.
Seeley, H. G. 1886 A, 468, fig.
Shufeldt, R. W. 1889 D, 23, fig.
Sinclair and Granger 1912 A, 59, 60 (This species?).
Stehlin, H. G. 1906 A, 643, 647.
Stromer, E. 1908 B. 169.
1912 A, 208, figs. 195, 196.
Trouessart, E. L. 1905 A, 576.
Underhill, B. M. 1910 A, 79.
Weber, M. 1904 A, 691, fig. 484.
Weber and Abel 1928 A, 630, fig. 426.
Woodward, A. S. 1898 B. 290, fig. 165.
1923 C, 52, figs. 39, 40.
Lower Eocene (Fort Union?, Wasatch, Wind River); Wyoming, New Mexico.

Phenacodus primævus hemiconus Cope.

Hay, O. P. 1902 A, 604 (P. hemiconus).
Granger, W. 1915 A, 333, 339, 354, figs. 3, 5, 7.
Matthew, W. D. 1909 C, 94 (P. hemiconus).

Sinclair and Granger 1912 A, 60 (This species?).
Paleocene (Fort Union); Wyoming: (Wasatch); Wyoming.

Phenacodus primævus robustus Granger.

Granger, W. 1915 A, 333, 340, 354, figs. 3, 5, 7.
Lower Eocene (Wasatch); Wyoming.

Phenacodus sulcatus Cope.

Hay, O. P. 1902 A, 605.
Granger, W. 1915 A, 347.
Matthew, W. D. 1909 C, 94 ("Incertæ sedis").
Merrill, G. P. 1907 A, 54.
Reeside, J. B. 1924 A, 46 (This species?).
Trouessart, E. L. 1905 A, 576.
Lower Eocene (Wasatch); New Mexico.

Phenacodus wortmani Cope.

Hay, O. P. 1902 A, 605.
Ameghino, F. 1906 A, 294, fig. 82*b*.
Chardin, P. T. 1927 A, 22.
Granger, W. 1915 A, 333, 343, 354, figs. 4, 6, 8 (P. vortmani).
Gregory, W. K. 1912 F, 288.
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 94.
Osborn, H. F. 1904 F, 30.
1909 D, 49.
Seeley, H. G. 1886 A, 469.
Sinclair, W. J. 1914 A, 275.
Trouessart, E. L. 1905 A, 576.
Lower Eocene (Wind River, Wasatch); Wyoming.

Phenacodus sp. indet.

Gidley, J. W. 1924 B, 47 (This genus?). Lower Eocene (Wasatch); Colorado.
1926 E, 41. Lower Eocene (Wasatch); Wyoming.
Matthew, W. D. 1909 C, 94. Lower Eocene (Wind River); Wyoming.
Simpson, G. G. 1927 B, 7, fig. 7 (This genus?). Upper Cretaceous (Paskapoo); Alberta.
Sinclair and Granger 1912 A, 60. Paleocene (Fort Union?); Wyoming.

ECTOCION Cope. Type *Oligotomus osbornianus* Cope.

Hay, O. P. 1902 A, 605.
Ameghino, F. 1904 A, 82, 84, 105.
Arldt, T. 1907 A, 241.
Fairchild, H. L. 1894 A, 209.
Granger, W. 1914 A, 204.
1915 A, 330, 348, figs. 1, 2.
Gregory, W. K. 1920 A, 245.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
Osborn, H. F. 1910 B, 132, 546.
Palmer, T. S. 1904 A, 251, 933.
Schlosser, M. 1900 B, 306.
Simpson, G. G. 1927 B, 10.
Weber and Abel 1928 A, 630.
Zittel and Schlosser 1923 A, 523.

Ectocion osbornianum Cope.

Hay, O. P. 1902 A, 605.
Ameghino, F. 1904 A, 82-84.
1906 A, 307, fig. 114.
Granger, W. 1915 A, 351, 352, 354, figs. 11-13.
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 94.
Trouessart, E. L. 1905 A, 576 (Ectocion); 611 (Ectocyon).
Lower Eocene (Wasatch, Wind River); Wyoming.

Ectocion parvum Granger.

Granger, W. 1915 A, 351, 353, 354, figs. 12, 13.
Lower Eocene (Wasatch); Wyoming.

Ectocion ralstonense Granger.

Granger, W. 1915 A, 351, 353, 354, figs. 11-14.
Lower Eocene (Wasatch); Wyoming.

Ectocion superstes Granger.

Granger, W. 1915 A, 351, 352, 354, figs. 11-13.
Lower Eocene (Wind River); Wyoming.

MENISCOTHERIIDÆ Cope.

Hay, O. P. 1902 A, 605.
Abel, O. 1913 B, 729, 734.
1914 A, 121, 142, 148.
Ameghino, F. 1893 B, 442.
1893 D, 14.
1901 A, 382.
1902 B, 9 (Meniscotheridæ).
Arldt, T. 1907 A, 244 (Meniscotheridæ).
1912 A, 702, 703 (Meniscotheridæ).
Depéret, C. 1904 B, 43 ("meniscothéridés").
Granger, W. 1915 A, 329, 354.
Gregory, W. K. 1910 A, 357.
1920 A, 175, 246, fig. 133.
Matthew, W. D. 1909 C, 94, 102.
Matthew, W. D. 1914 B, 387.
1915 E, 312.
1921 D, 214.
Osborn, H. F. 1909 D, 40.
Schlosser, M. 1898 B, 367.
1900 B, 304.
Scott, W. B. 1913 A, 457, 591.
Seeley, H. G. 1886 A, 469, 521.
Trouessart, E. L. 1905 A, 577.
Weber, M. 1904 A, 693.
Weber and Abel 1928 A, 426, 437, 630.
Winge, H. 1906 A, 69, 78.
Zittel and Schlosser 1911 A, 439.
1923 A, 524, 666.

MENISCOTHERIUM Cope. Type *M. chamense* Cope.

Hay, O. P. 1902 A, 605 (Meniscotherium); 606 (Hyracops).
Beddard, F. E. 1902 A, 203.
Chardin, P. T. 1920 A, 1161.
Chardin, P. T. 1922 A, 46.
Clark and Sonntag 1926 A, 479, 483.
Depéret, C. 1904 B, 43.
Granger, W. 1910 A, 243.

Granger, W. 1914 A, 206.
1915 A, 354, 356 (Hyracops a syn.).
Gregory, W. K. 1910 A, 355, 399, 447.
1912 F, 270, 288.
Haug, E. 1911 A, 1528.
Holland and Peterson 1913 A, 214.
Koken, E. 1901 B, 223.
Leche, W. 1904 A, 220.
Lull, R. S. 1917 B, 554.
Matthew, W. D. 1909 C, 102 (Hyracops a syn.).
1915 K, 421.
1921 H, 510.
1928 B, 963, fig. 9.
Osborn, H. F. 1907 G, 87, 184, figs. 135, 183.
1910 B, 108, 125, 132, 546.
1912 G, 236, fig. 3.
Palmer, T. S. 1904 A, 344, 932 (Hyracops); 410, 932 (Meniscotherium).
Salensky, W. 1903 A, 797 (Hyracops).
Schlosser, M. 1902 J, 257.
1911 A, 101.
Scott, W. B. 1913 A, 457, 459.
Seeley, H. G. 1886 A, 469.
Weber, M. 1904 A, 694 (Meniscotherium); 694, 714 (Hyracops).
Weber and Abel 1928 A, 437, 631.
Winge, H. 1906 A, 78, 165.
Wortman, J. L. 1904 A, 207.
Zittel and Schlosser 1911 A, 439.
1923 A, 524.

Meniscotherium chamense Cope.

Hay, O. P. 1902 A, 605.
Granger, W. 1915 A, 358, fig. 16.
Gregory, W. K. 1922 A, 109, figs. 47, 48.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 46.
Reeside, J. B. 1924 A, 46.
Trouessart, E. L. 1905 A, 577 (M. chamense); 578 (Hyracops socialis).
Lower Eocene (Wasatch); New Mexico.

Meniscotherium chamense terrærubræ Cope.

Hay, O. P. 1902 A, 606 (M. terrærubræ; Hyracops socialis).
Abel, O. 1913 B, 737, fig. 49 (M. terrarubræ).
Granger, W. 1914 A, 206 (M. terrærubræ).
1915 A, 359, fig. 15 (Hyracops socialis a syn.).
Matthew, W. D. 1909 C, 94 (M. chamense, M. terrærubræ).
Osborn, H. F. 1910 B, 125, fig. 39 (M. terrærubræ).
1916 E, 506, fig. 4 (M. terrærubræ).
Reeside, J. B. 1924 A, 46 (M. terrærubræ).
Weber and Abel 1928 A, 630, fig. 427 (M. terrærubræ).
Woodward, A. S. 1898 B, 289, fig. 164 (Hyracops socialis).
Zittel and Schlosser 1911 A, 439, fig. 605 (M. terrærubræ).
1923 A, 524, fig. 645 (M. terrærubræ).
Lower Eocene (Wasatch); New Mexico.

Meniscotherium priscum Granger.

Granger, W. 1915 A, 360, fig. 18 (Meniscotherium?).
Lower Eocene (Wasatch); Wyoming.

Meniscotherium tapiacitis Cope.

Hay, O. P. 1902 A, 605.
Granger, W. 1915 A, 360, fig. 17.
Matthew, W. D. 1909 C, 94.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico.

MIOCLÆNIDÆ Osborn and Earle.

Hay, O. P. 1902 A, 606.
Abel, O. 1913 B, 729, 735.
1914 A, 121, 142, 145.
1926 B, 396.
Arldt, T. 1907 D, 620.
1912 A, 702.
Beddard, F. E. 1902 A, 205.
Gregory, W. K. 1920 A, 246.
Matthew, W. D. 1909 D, 512.
1914 B, 387.
1915 E, 311.
1918 H, 608.
1921 D, 212.
Osborn, H. F. 1910 B, 109, 546.
Palmer, T. S. 1904 A, 754, 933.
Schlosser, M. 1898 B, 362, 367, 368.
1900 B, 304, 305.
Trouessart, E. L. 1905 A, 569.
Weber, M. 1904 A, 693.
Weber and Abel 1928 A, 124, 426, 628.
Winge, H. 1923 A, 197.
Zittel and Schlosser 1911 A, 438.
1923 A, 522, 602, 665.

MIOCLÆNUS Cope. Type *M. turgidus* Cope.

Hay, O. P. 1902 A, 606 (Mioclænus); 746 (Ellipsodon).
Abel, O. 1913 B, 735.
Bardenfleth, K. S. 1913 A, 76.
Beddard, F. E. 1902 A, 205.
Haug, E. 1911 A, 1527.
Matthew, W. D. 1901 A, 5, 6.
1909 C, 101.
1918 H, 567, 609.
1924 E, 749.
1928 B, 956 (Mioclænus, Ellipsodon).
Osborn, H. F. 1903 D, 313.
1907 G, 169, fig. 147.
1909 D, 34.
1910 B, 107, 546.
1912 G, 233, fig. 1.
Palmer, T. S. 1904 A, 426, 933.
Schlosser, M. 1898 B, 362, 365.
1903 A, 289.
1900 B, 307.
Seeley, H. G. 1886 A, 418.
Stehlin, H. G. 1906 A, 673.
1916 B, 1484.
Trouessart, E. L. 1904 A, 43 (Promioclænus).
1905 A, 569.
Weber and Abel 1928 A, xxiv, 628.

Winge, H. 1917 A, 102, 180.
1923 A, 131, 196, 215, 216, 217.
Zittel and Schlosser 1911 A, 438.
1923 A, 522.

Mioclænus acolytus Cope.

Hay, O. P. 1902 A, 606.
Douglass, E. 1902 B, 273.
1902 C, 217, 222, pl. xxix, figs. 9, 10.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1901 A, 6.
1909 C, 92.
1909 D, 512.
1914 B, 385.
Osborn, H. F. 1902 C, 170, 171, fig. 1.
Reeside, J. B. 1924 A, 41.
Trouessart, E. L. 1904 A, 43 (Promioclænus).
Paleocene (Torrejon); New Mexico, Montana.

Mioclænus inæquidens Cope.

Hay, O. P. 1902 A, 746 (Ellipsodon).
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Trouessart, E. L. 1904 A, 160 (Ellipsodon).
Paleocene (Torrejon); New Mexico.

Mioclænus lemuroides Matthew.

Hay, O. P. 1902 A, 606.
Chardin, T. 1922 A, 88.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1901 A, 6.
1909 C, 92.
1909 D, 512.
1914 B, 385.
Osborn, H. F. 1902 C, 171.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1911 A, 69.
Trouessart, E. L. 1904 A, 43 (Promioclænus).
Zittel and Schlosser 1911 A, 438, fig. 603.
1923 A, 522, fig. 643.
Paleocene (Torrejon); New Mexico.

Mioclænus lydekkerianus Cope.

Hay, O. P. 1902 A, 606.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Paleocene (Torrejon); New Mexico.

Mioclænus turgidunculus Cope.

Hay, O. P. 1902 A, 606.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1901 A, 6.
1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Paleocene (Puerco); New Mexico.

Mioclænus turgidus Cope.

Hay, O. P. 1902 A, 606.
Abel, O. 1913 B, 735, fig. 43.
1914 A, 144, fig. 96.
Gardner, J. H. 1910 A, 730.
Granger, W. 1917 A, 822, 823, 825.
Matthew, W. D. 1901 A, 6.
1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1898 B, 371.
Weber and Abel 1928 A, 627, fig. 423.
Paleocene (Torrejon); New Mexico.

Mioclænus sp. indet.

Douglass, E. 1908 D, 23. Paleocene (Fort Union); Montana.
Lull, R. S. 1915 D, 326. Paleocene (Fort Union); Montana.

PROTOSELENE Matthew. Type *Mioclænus opisthacus* Cope.

Hay, O. P. 1902 A, 607.
Beddard, F. E. 1902 A, 205.
Matthew, W. D. 1901 A, 6 (Mioclænus).
1909 C, 101.
Palmer, T. S. 1904 A, 585, 933.
Schlosser, M. 1900 B, 307.
1921 A, 123.
Zittel and Schlosser 1911 A, 438.
1923 A, 522.

Protoselene opisthaca (Cope).

Hay, O. P. 1902 A, 607.
Gardner, J. H. 1910 A, 730 (This genus?).
Granger, W. 1917 A, 823, 825 (Mioclænus); 823 (Hemithlæus baldwini).
Matthew, W. D. 1909 C, 92 (This genus?).
1914 B, 385.
Reeside, J. B. 1924 A, 41 (P. opisthacus).
Schlosser, M. 1900 B, 307.
Paleocene (Torrejon); New Mexico.

MONODELPHIA OF UNDETERMINED POSITION.

PLANETETHERIUM Simpson. Type *P. mirabile* Simpson.

Simpson, G. G. 1928 A, 11.

Planetetherium mirabile Simpson.

Simpson, G. G. 1928 A, 11, figs. 7-9.
Upper Cretaceous (Fort Union); Montana.

Order AMBLYPODA Cope.

Hay, O. P. 1902 A, 692.
Abel, O. 1912 F, 573 ("amblypoden").
1913 B, 729, 746.
1914 A, 142, 187.
Abel, O. 1919 A, 816.
1920 A, 438.
Ameghino, F. 1889 A, 1005.
1901 A, 390.

Ameghino, F. 1904 B, 52.
1905 A, 63.
1906 A, 320 ("amblypodes").
Anderson, R. J. 1912 D, 253.
Arldt, T. 1907 D, 637.
1908 A, 240 ("amblypoden").
Beddard, F. E. 1902 A, 205.
Behlen, H. 1906 A, 197 ("amblypoden").
Branca, W. 1907 A, 9.
Case, E. C. 1899 B, 170.
Clark and Sonntag 1926 A, 461, 462.
Cope, E. D. 1880 U, 151 ("amblypodes").
1885 BB, 72.
1885 EE, 610.
1891 N, 67, 84, 90.
Cossmann, M. 1901 B, 186.
Depéret, C. 1902 D, 1281 ("amblypodes").
1904 B, 23, 41 ("amblypodes").
1905 C, 703 ("amblypodes").
1912 A, 706 ("amblypodes").
Fischer, E. 1903 A, 713.
Gaudry, A. 1906 A, 7 ("amblypodes").
Gawrilenko, A. 1924 A, 222 ("amblypoden").
Gidley, J. W. 1917 A, 433.
Gregory, W. K. 1910 A, 99, 356-359, 448.
1912 F, 270.
1920 A, 180, 243.
Heilprin, A. 1887 A, 367.
Hescheler, K. 1906 A, 30.
Howes, G. B. 1902 A, 523.
1903 A, 328.
Jaekel, O. 1911 A, 239 (Amblypodi).
Kampfen, P. N. 1905 A, 627.
Koken, E. 1893 B, 485.
Lemoine, V. 1889 A, 255 ("amblypodes").
Loomis, F. B. 1922 A, 62.
Lull, R. S. 1917 B, 555.
Major, C. J. F. 1899 B, 66.
Matthew, W. D. 1906 B, 361 ("amblypods").
1909 C, 92, 94, 97, 99, 102.
1909 D, 301, 551.
1915 A, 256.
1915 K, 463.
Matthew, W. D. 1921 D, 214.
1928 B, 948, 956, 963, 968.
Osborn, H. F. 1898 U, 686.
1899 J, 415.
1902 E, 356, fig. 1.
1905 H, 207, fig. 2.
1905 I, 99.
1906 C, 851.
1907 G, 14, 64.
1909 D, 121.
1910 B, 605.
1917 B, 259.
1925 B, 18.
1925 C, 750.
Palacký, J. 1903 B, 305, 306.
Parker and Haswell 1897 A, 455.
Reynolds, S. H. 1897 A, 509, 531.
Schlosser, M. 1898 B, 360, 362, 367.
1902 E, 472.
1902 I, 738.
1911 A, 139 ("amblypoden").
Schwarz, E. 1924 A, 419.
Scott, W. B. 1896 C, 308.
1913 A, 675.
Seeley, H. G. 1886 A, 466, 469, 521.
Shufeldt, R. W. 1889 D, 11.
Smith, G. E. 1903 A, 328 (Amblypoda).
1903 B, 49.
Steinmann, G. 1907 A, 479.
Stromer, E. 1906 A, 214.
1912 A, 209, 244.
Terra, P. 1911 A, 331.
Trouessart, E. L. 1905 A, 578.
Weber, M. 1904 A, 588, 699.
Weber and Abel 1928 A, 90, 426, 626, 690.
Winge, H. 1906 A, 68, 69, 72.
Woodward, A. S. 1898 D, 329, 335.
1904 D, 157.
1923 C, 48.
Wortman, J. L. 1903 A, 430.
1921 A, 185.
Zittel and Schlosser 1911 A, 506.
1923 A, 596, 602, 667.

Suborder PERIPTICHIFORMES, new name.

Hay, O. P. 1902 A, 692 (Taligrada).
Ameghino, F. 1889 A, 1025 (Taligrada).
Clark and Sonntag 1926 A, 462 (Taligrada).
Gregory, W. K. 1910 A, 99, 356, 357, 447, 456, 466.
1916 A, 248 (Taligrada).
1921 A, 69 (Taligrada).
Kingsley, J. S. 1925 A, 215 (Taligrada).
Matthew, W. D. 1915 A, 256 (Taligrada).
1921 D, 212 (Taligrada).
Matthew, W. D. 1928 B, 948, 959, 970.
Osborn, H. F. 1910 B, 546 (Taligrada).
Schlosser, M. 1902 E, 474, 476 (Taligrada).
Scott, W. B. 1913 A, 453 (Taligrada).
Seeley, H. G. 1886 A, 473, 521 (Taligrada).
Weber, M. 1904 A, 700 (Taligrada).
Zittel and Schlosser 1911 A, 507 (Syn. of Pantolambdidæ).
1923 A, 597 (Syn. of Pantolambdidæ).

PERIPTYCHIDÆ Cope.

Cope, E. D. 1882 A, 447.
Hay, O. P. 1902 A, 693.
Abel, O. 1913 B, 729, 735.
1914 A, 121, 142, 145.
Ameghino, F. 1904 C, 46.
Arldt, T. 1907 A, 244.
1907 D, 672.
1912 A, 702, 703 (Catathlæidæ).
Behlen, H. 1906 A, 193 ("periptychiden").
Chardin, T. 1922 A, 27 ("périptychidés").
Depéret, C. 1904 B, 43 ("périptychidés").
Flower, W. H. 1892 A, 20.
Gregory, W. K. 1910 A, 357, 454.
1920 A, 243.
Matthew, W. D. 1909 C, 92, 102.
1914 B, 387.
1918 H, 608.
1921 D, 212.
Osborn, H. F. 1909 D, 33, 35.
1910 B, 110, 111, 546.

Schlosser, M. 1898 B, 362, 367, 368.
1900 B, 304.
1902 E, 473, 477 ("periptychiden").
Scott, W. B. 1913 A, 443.
Seeley, H. G. 1886 A, 467, 521.
Trouessart, E. L. 1905 A, 570 (Catathlæidæ).
Weber, M. 1904 A, 700.
Weber and Abel 1928 A, 124, 426, 690, 694.
Winge, H. 1917 A, 91, 101, 103, 179.
1923 A, 123, 131, 133, 195, 212.
Zierler, F. E. 1905 A, 514.
Zittel and Schlosser 1911 A, 438.
1923 A, 522, 602, 665.

PERIPTYCHINÆ Osborn and Earle.

Hay, O. P. 1902 A, 693.
Matthew and Granger 1925 A, 9.
Schlosser, M. 1898 B, 362, 368.
1900 B, 304.
Trouessart, E. L. 1905 A, 571 (Catathlæinæ).

PERIPTYCHUS Cope. Type *P. carinidens* Cope.

Hay, O. P. 1902 A, 693.
Ameghino, F. 1893 B, 440, 447.
1893 D, 14.
1904 A, 534.
1905 C, 409.
1906 A, 295, 298.
Beddard, F. E. 1902 A, 204.
Chardin, T. 1922 A, 26.
Gaudry, A. 1896 A, 147.
1901 B, 525.
Granger, W. 1917 A, 828.
Gregory, W. K. 1910 A, 437.
1912 F, 270.
1921 A, 234.
Haug, E. 1911 A, 1527, 1528.
Koken, E. 1893 B, 482.
Matthew, W. D. 1909 C, 102.
1924 E, 749.
1928 B, 956.
Osborn, H. F. 1907 G, 164, figs. 135, 137.
1910 B, 107, 546.
Palmer, T. S. 1904 A, 524, 908..
Rogers, A. F. 1924 A, 545.
Schlosser, M. 1898 B, 362, 369.
1900 B, 304.
1903 A, 291.
1911 A, 134.
Scott, W. B. 1913 A, 454.
Seeley, H. G. 1886 A, 467.
Trouessart, E. L. 1905 A, 571.
Weber, M. 1904 A, 700.
Weber and Abel 1928 A, 690.
Winge, H. 1917 A, 103, 180.
1923 A, 132, 196, 197, 212, 215, 216.
Zittel and Schlosser 1911 A, 439.
1923 A, 523, 665.

Periptychus carinidens Cope.

Hay, O. P. 1902 A, 693.
Gardner, J. H. 1910 A, 730, fig. 9.
Granger, W. 1917 A, 823.
Matthew, W. B. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1900 B, 304.
Trouessart, E. L. 1905 A, 571 (Catathlæus).
Paleocene (Torrejon); New Mexico.

Periptychus coarctatus Cope.

Hay, O. P. 1902 A, 693.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 368.
1900 B, 304.
Trouessart, E. L. 1905 A, 571 (Catathlæus).
Paleocene (Puerco); New Mexico.

Periptychus rhabdodon Cope.

Hay, O. P. 1902 A, 693.
Ameghino, F. 1893 B, 447.
1893 D, 17.
1904 A, 392.
1905 C, 407, fig. 54.
Beddard, F. E. 1902 A, 205.
Gardner, J. H. 1910 A, 730.
Granger, W. 1917 A, 822, 823, 825.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Neumayer, L. 1906 A, 103.
Osborn, H. F. 1904 F, 5.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1898 B, 368.
Seeley, H. G. 1886 A, 467, figs.
Sinclair and Granger 1914 A, 307, 311.
Trouessart, E. L. 1905 A, 571 (Catathlæus).
Paleocene (Torrejon); New Mexico.

Periptychus rhabdodon var. **fissus.**

Granger, W. 1917 A, 823 (No description).
Paleocene (Torrejon); New Mexico.

Periptychus sp. indet.

Granger, W. 1917 A, 828. Lower Eocene (Wasatch); Colorado.
Reeside, J. B. 1924 A, 46. Lower Eocene (Wasatch); Colorado.

ECTOCONUS Cope. Type *Periptychus ditrigonus* Cope.

Hay, O. P. 1902 A, 694.
Ameghino, F. 1904 A, 394, 395.
1905 C, 409.
1906 A, 298.
Eastman, C. R. 1914 B, 689.
Gaudry, A. 1901 B, 525.
Gregory, W. K. 1910 A, 454, fig. 30.
1920 A, 244.
1921 A, 69.
Haug, E. 1911 A, 1527.
Matthew, W. D. 1906 B, 358.
1909 C, 102.
1917 A, 573.
1918 H, 608.
Matthew, W. D. 1928 B, 955, 956, figs. 5, 7.
Matthew and Granger 1925 A, 9.
Moodie, R. L. 1923 B, 124.
Osborn, H. F. 1910 B, 546.

Palmer, T. S. 1904 A, 251, 908.
Schlosser, M. 1898 B, 362, 368.
1902 E, 473.
Winge, H. 1917 A, 181.
Zittel and Schlosser 1911 A, 439.
1923 A, 523.

Ectoconus ditrigonus Cope.

Hay, O. P. 1902 A, 694.
Ameghino, F. 1904 A, 394.
Ameghino, F. 1905 C, 409, fig. 57.
1906 A, 297, figs. 92, 95, 515.
Gardner, J. H. 1910 A, 730.
Gaudry, A. 1901 B, 525.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 369.
Trouessart, E. L. 1905 A, 571 (Catathlæus).
Paleocene (Puerco); New Mexico.

PROTOLAMBDA Osborn. Type *P. hatcheri* Osborn.

Hay, O. P. 1902 A, 692.
Arldt, T. 1912 A, 686 (To Protolambidæ).
Gidley, J. W. 1906 F, 99, 104, fig. 12.
Osborn, H. F. 1907 G, 96, fig. 47.
Palmer, T. S. 1904 A, 583, 909.

Protolambda hatcheri Osborn.

Hay, O. P. 1902 A, 692.
Matthew, W. D. 1916 A, 478.
Upper Cretaceous (Lance); Wyoming.

HAPLOCONUS Cope. Type *H. lineatus* Cope.

Hay, O. P. 1902 A, 694.
Gaudry, A. 1901 A, 504.
Gregory, W. K. 1910 A, 359.
1920 A, 181.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
1924 E, 749.
1928 B, 956.
Palmer, T. S. 1904 A, 309, 908.
Schlosser, M. 1898 B, 362, 369.
1900 B, 304.
1902 E, 473.
Seeley, H. G. 1886 A, 467.
Winge, H. 1917 A, 180.
1923 A, 132, 216.
Zittel and Schlosser 1923 A, 523, 684.

Haploconus angustus Cope.

Hay, O. P. 1902 A, 694.
Paleocene (Puerco); New Mexico.

Haploconus corniculatus Cope.

Hay, O. P. 1902 A, 694.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1898 B, 370 (Hemithlæus).
Paleocene (Torrejon); New Mexico.

Haploconus lineatus Cope.

Hay, O. P. 1902 A, 694.
Gardner, J. H. 1910 A, 730.
Gregory, W. K. 1922 A, 108.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1898 B, 370.
1900 B, 304.
Winge, H. 1917 A, 102.
1923 A, 132.
Paleocene (Torrejon); New Mexico.

ANISONCHINÆ Osborn and Earle.

Hay, O. P. 1902 A, 694.
Schlosser, M. 1898 B, 362, 369.
Schlosser, M. 1900 B, 304.
Trouessart, E. L. 1905 A, 570.

ANISONCHUS Cope. Type *A. sectorius* Cope.

Hay, O. P. 1902 A, 694.
Ameghino, F. 1904 A, 399.
Matthew, W. D. 1909 C, 102.
1924 E, 749.
1928 B, 956.
Osborn, H. F. 1903 D, 313.
1910 B, 546.
Schlosser, M. 1900 B, 304.
Seeley, H. G. 1886 A, 467.
Winge, H. 1917 A, 102, 180.
1923 A, 132, 216.
Zittel and Schlosser 1911 A, 438.
1923 A, 523, 684.

Anisonchus gillianus Cope.

Hay, O. P. 1902 A, 695.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 370.
Paleocene (Puerco); New Mexico.

Anisonchus sectorius Cope.

Hay, O. P. 1902 A, 695.
Douglass, E. 1902 B, 272 (This species?).
1902 C, 217, 222, pl. xxix, figs. 3-5. (This species?).
Gardner, J. H. 1910 A, 730.
Granger, W. 1917 A.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1898 B, 369, 370 (A. mandibularis, A. sectorius).
1900 B, 304 (Haploconus mandibularis).
Winge, H. 1917 A, 102.
1923 A, 132.
Paleocene (Torrejon); New Mexico, Montana?.

ZETODON Cope. Type *Z. gracilis* Cope.

Hay, O. P. 1902 A, 695.
Palmer, T. S. 1904 A, 714, 908.
Winge, H. 1917 A, 181.

Zetodon gracilis Cope.

Hay, O. P. 1902 A, 695.
Paleocene (Puerco); New Mexico.

HEMITHLÆUS Cope. Type *H. kowalevskianus* Cope.

Hay, O. P. 1902 A, 695.
Ameghino, F. 1904 A, 400.
1906 A, 299.
Gregory, W. K. 1910 A, 402.
Matthew, W. D. 1909 C, 102.
1928 B, 955, fig. 5.
Osborn, H. F. 1907 G, 165, fig. 138.
1910 B, 546.
Palmer, T. S. 1904 A, 319, 908.
Schlosser, M. 1898 B, 362, 369.
1911 A, 68.
Seeley, H. G. 1886 A, 467.
Winge, H. 1917 A, 101, 180.
1923 A, 131, 216.

Hemithlæus kowalevskianus Cope.

Hay, O. P. 1902 A, 695.
Ameghino, F. 1904 A, 399.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1898 B, 369.
Winge, H. 1923 A, 131.
Paleocene (Puerco); New Mexico.

CONACODON Matthew. Type *Haploconus entoconus* Cope.

Hay, O. P. 1902 A, 695.
Haug, E. 1911 A, 1527.
Matthew, W. D. 1909 C, 102.
1924 E, 749.
Osborn, H. F. 1907 G, 165, fig. 139.
1910 B, 546.
Winge, H. 1917 A, 102.
1923 A, 132, 216.

Conacodon cophater (Cope).

Hay, O. P. 1902 A, 695.
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1908 C, 370 (Haploconus).
Paleocene (Puerco); New Mexico.

Conacodon entoconus (Cope).

Hay, O. P. 1902 A, 696.
Abel, O. 1913 B, 735, fig. 44 (C. entoconum).
1914 A, 145, fig. 98 (C. entoconum).
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 38.
Schlosser, M. 1900 B, 304 (Haploconus coniferus).
Weber and Abel 1928 A, 692, fig. 482.
Winge, H. 1917 A, 102 (Haploconus).
1923 A, 132 (Haploconus).
Paleocene (Puerco); New Mexico.

PANTOLAMBDIDÆ Cope.

Hay, O. P. 1902 A, 696.
Abel, O. 1912 F, 573 ("pantolambdiden").
1913 B, 729, 735.
1914 A, 121, 142, 145.
Ameghino, F. 1889 A, 621, 894.
1901 A, 397.
1902 B, 9.
1904 C, 46.
1906 A, 298.
Arldt, T. 1907 A, 241, 244.
1907 D, 671.
1912 A, 702, 703.
Gregory, W. K. 1910 A, 357.
Matthew, W. D. 1909 C, 92, 102.
1914 B, 387.
1921 D, 212.
Osborn, H. F. 1909 D, 35, 40.
1910 B, 110, 111, 546.
Schlosser, M. 1898 B, 362.
1902 E, 477.
Scott, W. B. 1913 A, 443.
Seeley, H. G. 1886 A, 521.
Trouessart, E. L. 1905 A, 572.
Weber, M. 1904 A, 700.
Weber and Abel 1928 A, 426, 626, 694.
Winge, H. 1906 A, 69, 72 (Pantolambdini).
Zittel and Schlosser 1911 A, 507.
1923 A, 597.

PANTOLAMBDA Cope. Type *P. bathmodon* Cope.

Hay, O. P. 1902 A, 696.
Abel, O. 1912 F, 229.
1914 A, 146.
Ameghino, F. 1889 A, 962.
1904 A, 534.
1905 C, 410.
1906 A, 299.
Beddard, F. E. 1902 A, 207.
Cossman, M. 1901 B, 186.
Dall, W. H. 1898 A, 347.
Gardner, J. H. 1910 A, 712.
Gidley, J. W. 1917 A, 433.
1919 A, 274.
Granger, W. 1917 A, 825.
Gregory, W. K. 1910 A, 447.
1912 F, 270, 285.

Gregory, W. K. 1920 A, 243.
1921 A, 69, pl. xxvii.
Haug, E. 1911 A, 1528.
Lull, R. S. 1917 B, 555.
Matthew, W. D. 1904 D, 814.
1909 C, 102.
1915 K, 465.
1917 A, 573.
1918 H, 609.
1928 B, 956, 969, fig. 11.
Osborn, H. F. 1903 D, 313.
1905 I, pl. i, fig. 1; pl. ii, fig. 1.
1907 G, 87, 165, figs. 135, 140, 144, 145.
1909 D, 23, 35.
1910 B, 107, 108, 110, 111, 546.
1912 G, 233, fig. 1.
1917 B, 259, fig.
Palmer, T. S. 1904 A, 510, 907.
Schlosser, M. 1898 B, 362, 367.
1899 I, 349.
1901 I, 460.
1902 E, 473.
1903 G, 145.
1911 A, 134, 141.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 285, 453.
Seeley, H. G. 1886 A, 473.
Sinclair and Granger 1914 A, 311.
Trouessart, E. L. 1905 A, 572.
Weber, M. 1904 A, 700.
Weber and Abel 1928 A, xxiv, 690.
Winge, H. 1906 A, 75.
Wood, H. E. 1923 A, 599, 604.
Wortman, J. L. 1921 A, 186.
Zittel and Schlosser 1911 A, 507.
1923 A, 598, 664.

Pantolambda bathmodon Cope.

Hay, O. P. 1902 A, 696.
Abel, O. 1913 B, 736, fig. 46.
1914 A, 145, figs. 99, 101.
Ameghino, F. 1904 A, 357, 401, figs. 470, 525.
1905 C, 380, figs. 20, 59.
1906 A, 300, fig. 98.
Beddard, F. E. 1902 A, 205 (Pantolambda); fig. 114 (Protolambda).
Gardner, J. H. 1910 A, 730.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Osborn, H. F. 1904 F, 5, 14, 34.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1902 E, 477.
Scott, W. B. 1913 A, 285, fig. 143.
Seeley, H. G. 1886 A, 474.
Trouessart, E. L. 1905 A, 572.
Weber, M. 1904 A, 700, figs. 495, 497.
Weber and Abel 1928 A, 691, fig. 481.
Zittel and Schlosser 1911 A, 507, fig. 701.
1923 A, 597, fig. 742.
Paleocene (Torrejon); New Mexico.

Pantolambda cavirictus Cope.

Hay, O. P. 1902 A, 696.
Abel, O. 1913 B, 736, fig. 45.
1914 A, 146, fig. 100.
Douglass, E. 1902 C, 217, 223 (This species?).
Gardner, J. H. 1910 A, 730.
Gidley, J. W. 1915 E, 538.
Granger, W. 1917 A, 823.
Lloyd and Hares 1915 A, 538.
Matthew, W. D. 1909 C, 92.
1914 B, 385.
Reeside, J. B. 1924 A, 41.
Schlosser, M. 1898 B, 367.
1902 E, 477.
Stanton, T. W. 1909 A, 264 (This species?).
Terra, P. 1911 A, 332, fig. 157.
Trouessart, E. L. 1905 A, 572.
Weber and Abel 1928 A, 691, fig. 480.
Zittel and Schlosser 1911 A, 507, fig. 700.
Paleocene (Torrejon); New Mexico: (Fort Union); Montana.

Pantolambda sp. indet.

Lull, R. S. 1915 D, 326. Paleocene (Fort Union); Montana.

TITANOIDES Gidley. Type *T. primævus* Gidley.

Gidley, J. W. 1917 A, 431.
Abel, O. 1922 C, 271.
Matthew, W. D. 1928 B, 969.
Zittel and Schlosser 1923 A, 598.
A genus of uncertain ordinal position.

Titanoides primævus Gidley.

Gidley, J. W. 1917 A, 431, pl. xxxvi, figs. 1, 2; text-fig. 1.
Paleocene (Fort Union); North Dakota.

Suborder CORYPHODONTIFORMES, new name.

Unless otherwise indicated the authors, as cited, use the name Dinocerata.

Hay, O. P. 1902 A, 696 (Pantodonta); 701 (Dinocerea).
Abel, O. 1908 D, (211) ("dinoceraten").
1912 F, 581.
1914 A, 187.
1922 C, 261 ("dinoceratiden").
Ameghino, F. 1889 A, 1011 (Dinocerata); 1021 (Pantodonta).
1905 C, 350.
Beddard, F. E. 1902 A, 210.
Boule, M. 1891 A, 32 ("dinocératidés").
Cope, E. D. 1873 FF, 3, 4 (Dinocerea).
1880 U, 152 (Dinocerata, Pantodonta).
1891 N, 84.
Delafontaine, M. 1875 A, 173.
Gaudry, A. 1898 A, 128.
Gregory, W. K. 1910 A, 99 (Pantodonta).
1920 A, 243.
Howes, G. B. 1902 A, 523.
Kingsley, J. S. 1925 A, 215 (Pantodonta, Dinocerata).
Koken, E. 1893 B, 476 ("dinoceraten").
Matthew, W. D. 1915 K, 463.
1928 B, 970.
Osborn, H. F. 1909 D, 124.
1910 B, 163, 166, 172 (Dinocerata); 546 (Pantodonta).

Schlosser, M. 1902 E, 474, 476 (Dinocerata, Pantodonta).
1903 G, 145.
Scott, W. B. 1913 A, 443 (Dinocerata); 451 (Pantodonta).
Seeley, H. G. 1886 A, 466, 571.
Shufeldt, R. W. 1889 D, 4.
1911 A, 73.
Steinmann, G. 1908 A, 261 ("dinoceraten").
Wallace, A. R. 1876 A, I, 139.
Weber, M. 1904 A, 700 (Pantodonta).
Williston, S. W. 1902 L, 918.
Woodward, A. S. 1898 D, 330.
1923 A, 32.
Wyckoff, W. C. 1874 A, 11.

CORYPHODONTIDÆ Marsh.

Hay, O. P. 1902 A, 697.
Abel, O. 1913 B, 729, 735, 746.
1914 A, 187.
1919 A, 817.
1920 A, 438 ("coryphodontiden").
1922 C, 261 ("coryphodontiden").
Ameghino, F. 1889 A, 1009.
1902 B, 9.
1905 C, 368.
1906 A, 324.
Arldt, T. 1907 D, 647.
1912 A, 700.
Beddard, F. E. 1902 A, 206.
Case, E. C. 1899 B, 170.
Cope, E. D. 1872 VV, 1 (Bathmodontidæ).
Gregory, W. K. 1910 A, 358.
Hoernes, R. 1886 A, 665.
Malaquin, A. G. 1900 A, 262 ("coryphodontides").
Matthew, W. D. 1909 C, 94, 102.
1914 B, 387.
1921 D, 214.
Osborn, H. F. 1909 D, 123.
Scott, W. B. 1913 A, 443, 678.
Steinmann, G. 1907 A, 480.
Stromer, E. 1912 A, 210.
Trouessart, E. L. 1905 A, 581.
Weber, M. 1904 A, 701.
Weber and Abel 1928 A, 426, 626, 692, 695.
Winge, H. 1906 A, 69, 72 (Coryphodontidæ, Coryphodontini).
Wood, H. E. 1923 A, 601, 604.
Zittel and Schlosser 1911 A, 508.
1923 A, 598, 602.

CORYPHODON Owen. Type *C. eocænus* Owen.

Hay, O. P. 1902 A, 697.
Abel, O. 1912 F, 229, 573, 667.
1913 B, 747, fig. 70.
1920 A, 439, fig. 667.
Ameghino, F. 1889 A, 619, 962.
1904 A, 369, 370 (Ectacodon); 529 (Coryphodon).
1905 C, 350 (Bathmodon).
Anthony, R. 1912 A.
Arldt, T. 1907 D, 253.
Baird, S. F. 1876 A, 322 (Bathmodon).
Beddard, F. E. 1902 A, 206.
Boule, M. 1902 B, 911.
Bronn, H. G. 1849 A, 705.
Case, E. C. 1899 B, 170.
Chardin, P. T. 1920 A, 1161.
1921 A, 171.
1922 A, 82.
1924 A, 13.
1927 A, 29, text-fig. 29.
Cope, E. D. 1872 VV, 1 (Bathmodon, Metalophodon).
1878 JJ, 67.
1880 U, 148.
Depéret, C. 1902 A, 323.
1902 C, 345.
1902 D, 1281.
1904 B, 23, fig. 8.
1905 C, 703.
1908 A, 111.
1912 A, 706.
Dollo and Chardin 1924 A, 15.
Flower, W. H. 1873 B, 99.
Gaudry, A. 1893 A, 22.
1896 A, 63, 148, fig. 58.
1906 A, 18.
1906 B, 111.
Gervais, P. 1859 A, 127.
Gidley, J. W. 1917 A, 433.
1918 B, 59.
Giebel, C. G. 1883 A, 114.
Granger, W. 1914 A, 202, 204.
Gregory, W. K. 1912 F, 285.
Haug, E. 1911 A, 1528.
Hay, O. P. 1911 B, 400.
Heilprin, A. 1887 A, 367.
Hoernes, R. 1886 A, 666.
Hutchinson, H. N. 1910 A, 251, pl. xl.
Huxley, T. H. 1870 F, 537, 544.
Knipe, H. R. 1912 A, 122, fig.
Leche, W. 1905 A, 583.
Lemoine, V. 1889 A, 255.
Loomis, F. B. 1905 C, 296.
Lucas, F. A. 1902 B, 225, fig.
Lull, R. S. 1917 B, 555, 582, fig. 179.
1918 C, 134.
Lydekker, R. 1903 B, 201.
Malaquin, A. G. 1900 A, 261.
Matthew, W. D. 1909 B, 361.
1909 C, 102.
1915 K, 415, 416, 421, 465.
1918 H, 609.
1921 D, 212, 219.
1924 E, 749.
1926 D, 453, fig. 4.
1928 B, 963, 968, 970, fig. 11.
Moreau, L. 1914 A, 83, fig. 1.
Osborn, H. F. 1898 V, 206.
1904 F, 47.
1905 I, pl. i, fig. 2; pl. ii, fig. 2.
1907 G, 166, figs. 141, 143.
1909 D, 23, 123.
1910 A, 205.
1910 B, 611, figs. 30, 31, 71c.
1912 G, 236, fig. 3.
1917 B, 259, fig.

Osborn, H. F. 1919 B, 558.
Owen, R. 1845 B, 607, pl. cxxxv, fig. 9.
1868 A, 874.
1879 C, 581.
Palacký, J. 1903 B, 307.
Palmer, T. S. 1904 A, 200, 907 (Coryphodon); 251, 907 (Ectacodon); 399, 907 (Manteodon).
Peale, A. C. 1876 A, 153 (Bathmodon, Metalophodon).
Reynolds, S. H. 1897 A, 433, 473, 510, 519, 525.
Schlosser, M. 1898 B, 367.
1899 I, 349.
1901 I, 460.
1902 E, 473 (Coryphodon); 478 (Ectacodon, Bathmodon, Metalophodon, Manteodon).
1903 G, 145.
1911 A, 139.
1921 A, 134.
Schmidt, O. 1886 A, 132, 192, 284, figs. 13, 14.
Schuchert and Levene 1927 A, 334, fig.
Scott, W. B. 1913 A, 275, 277, 678.
Seeley, H. G. 1886 A, 470 (Coryphodon); 470, 471 (Metalophodon).
Shufeldt, R. W. 1889 D, 15.
Stanton, T. W. 1909 A, 276.
Stehlin, H. G. 1905 A, 555.
Steinmann, G. 1907 A, 480, fig. 833.
1908 A, 259, figs. 166, 167.
Stromer, E. 1908 B, 169.
Trouessart, E. L. 1905 A, 581.
Underhill, B. M. 1907 A, 118.
1910 A, 80.
Wallace, A. R. 1876 A, I, 126 (Coryphodon); 136 (Bathmodon).
Weber, M. 1904 A, 700.
Weber and Abel 1928 A, xxi, xxiii, 414, 692, figs. 257, 483.
Weber and Burlet 1927 A, 149, fig. 114.
Wegemann, C. H. 1918 A, 58.
Winge, H. 1906 A, 76 (Coryphodon, Manteodon).
Wood, H. E. 1923 A, 599.
Woodward, A. S. 1898 D, 329, 335.
1904 C, 192.
1923 C, 50.
Wortman, J. L. 1903 A, xv, 431.
Zittel and Schlosser 1911 A, 508.
1923 A, 598, 665, 666.

Coryphodon anax Cope.

Hay, O. P. 1902 A, 698.
Gaudry, A. 1906 A, 13, fig. 20.
Schlosser, M. 1902 E, 479 (C. anex, C. pachypus).
Seeley, H. G. 1886 A, 471 (Bathyopsis pachypus).
Trouessart, E. L. 1905 A, 581 (Syn. of C. lobatus).
Weber and Abel 1928 A, 693.
Zittel and Schlosser 1911 A, 508, fig. 703.
1923 A, 598, fig. 744.
Lower Eocene (Wasatch); Wyoming.

Coryphodon armatus (Cope).

Hay, O. P. 1902 A, 698.
Cope, E. D. 1874 B, 437.
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 94.
Schlosser, M. 1902 E, 478, 479.
Trouessart, E. L. 1905 A, 582.
Lower Eocene (Wasatch); Wyoming.

Coryphodon cinctus (Cope).

Hay, O. P. 1902 A, 698.
Ameghino, F. 1904 A, 369, 370, fig. 482.
Loomis, F. B. 1907 B, 357.
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 581.
Lower Eocene (Wasatch); Wyoming.

Coryphodon curvicristis Cope.

Hay, O. P. 1902 A, 698.
Matthew, W. D. 1909 C, 94.
Rogers, A. F. 1924 A, 545 (C. curvicristus).
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 582.
Lower Eocene (Wasatch); Wyoming.

Coryphodon cuspidatus Cope.

Hay, O. P. 1902 A, 698.
Loomis, F. B. 1907 B, 357.
Merrill, G. P. 1907 A, 25 (Bathmodon); 28 (Coryphodon).
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 582.
Lower Eocene (Wasatch); New Mexico.

Coryphodon elephantopus Cope.

Hay, O. P. 1902 A, 698.
Cope, E. D. 1885 FF, 791, 797, figs. 1, 7.
1891 N, 62, 63, 81, figs. 32*c*, 53.
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 25 (Bathmodon); 29 (Coryphodon).
Neumayer, L. 1906 A, 100.
Reeside, J. B. 1924 A, 46.
Schlosser, M. 1902 E, 479.
Seeley, H. G. 1886 A, 470.
Shufeldt, R. W. 1889 D, 14, fig.
Trouessart, E. L. 1905 A, 581.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Coryphodon hamatus Marsh.

Hay, O. P. 1902 A, 698.
Abel, O. 1912 F, 229, figs. 157, 179.
1914 A, 188, fig. 144.
1919 A, 817, fig. 616.
1920 A, 440, fig. 668.
Ameghino, F. 1904 A, 369.
Matthew, W. D. 1909 C, 94.
Reynolds, S. H. 1897 A, 510, fig. 107.
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 582.
Zittel and Schlosser 1911 A, 509, fig. 704.
1923 A, 599, fig. 745.
Lower Eocene (Wasatch); Wyoming.

Coryphodon latidens Cope.

Hay, O. P. 1902 A, 699.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 25 (Bathmodon); 29 (Coryphodon).
Reeside, J. B. 1924 A, 46.
Schlosser, M. 1902 E, 479.

Trouessart, E. L. 1905 A, 582.
Lower Eocene (Wasatch); New Mexico, Wyoming.

Coryphodon latipes Cope.

Hay, O. P. 1902 A, 699.
Cope, E. D. 1874 B, 441 (Bathmodon).
Osborn, H. F. 1912 G, 235, fig. 2.
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 582.
Lower Eocene (Wasatch); Wyoming.

Coryphodon lobatus Cope.

Hay, O. P. 1902 A, 699.
Abel, O. 1912 F, 229.
Ameghino, F. 1905 A, 42.
1905 C, 375, fig. 14.
Gidley, J. W. 1926 E, 41 (This species?).
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 94.
Reeside, J. B. 1924 A, 46.
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 581.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Coryphodon marginatus Cope.

Hay, O. P. 1902 A, 699.
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 581.
Lower Eocene (Wasatch); Wyoming.

Coryphodon molestus Cope.

Hay, O. P. 1902 A, 699.
Merrill, G. P. 1907 A, 25 (B. molestus, B. simus); 29 (Coryphodon molestus, C. simus).
Schlosser, M. 1902 E, 479 (C. molestus, C. lomas, C. simus).
Trouessart, E. L. 1905 A, 582 (Syn. of C. cuspidatus).
Wegemann, C. H. 1918 A, 58.
Lower Eocene (Wasatch); New Mexico, Wyoming.

Coryphodon obliquus Cope.

Hay, O. P. 1902 A, 699.
Merrill, G. P. 1907 A, 29.
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 581 (Syn. of C. elephantopus).
Lower Eocene (Wasatch); New Mexico.

Coryphodon radians Cope.

Hay, O. P. 1902 A, 699.
Ameghino, F. 1905 A, 42, fig. 47.
1905 C, 375, fig. 15.
Beddard, F. E. 1902 A, 208, fig. 115.
Cope, E. D. 1874 B, 441 (Bathmodon).
Cossmann, M. 1901 B, 186.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 29.
Osborn, H. F. 1904 F, 47 ("Coryphodon").
1909 D, 39.
1912 G, 235, fig. 2.
Schlosser, M. 1901 C, 462.
1901 I, 460.
1902 E, 478, 479.

Trouessart, E. L. 1905 A, 582.
Lower Eocene (Wasatch); Wyoming.

Coryphodon repandus Cope.

Hay, O. P. 1902 A, 700.
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 581.
Lower Eocene (Wasatch); Wyoming.

Coryphodon semicinctus Cope.

Hay, O. P. 1902 A, 700.
Cope, E. D. 1874 B, 441 (Bathmodon).
Osborn, H. F. 1905 H, 213 ("Loxolophodon").
1909 D, 39 (Coryphodon); 55 (Loxolophodon).
1912 G, 235, fig. 2.
Schlosser, M. 1902 E, 479.
Lower Eocene (Wasatch); Wyoming.

Coryphodon singularis Osborn.

Hay, O. P. 1902 A, 700.
Matthew, W. D. 1909 C, 94.
Schlosser, M. 1902 E, 479.
Lower Eocene (Wind River); Wyoming.

Coryphodon subquadratus (Cope).

Hay, O. P. 1902 A, 700.
Ameghino, F. 1904 A, 529, figs. 64, 471, 472, 474, 476, 478.
1906 A, 323, fig. 145.
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 582 (Syn. of C. hamatus).
Lower Eocene (Wasatch); Wyoming.

Coryphodon testis (Cope).

Hay, O. P. 1902 A, 700.
Abel, O. 1913 B, 747, fig. 69 (C. teste).
1914 A, 189, fig. 145.
Ameghino, A. 1904 A, 357, fig. 469.
Granger, W. 1910 A, 239 (This species?).
Heilmann, G. 1926 A, 163, fig. 116.
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 94.
Osborn, H. F. 1899 K, 273, fig. 3.
1904 F, 3, 27, fig. 1.
1924 D, 5.
Schlosser, M. 1902 E, 479.
Scott, W. B. 1913 A, 279 (fig. 142).
Stromer, E. 1912 A, 210, figs. 198, 199.
Trouessart, E. L. 1905 A, 581.
Wood, H. E. 1923 A, 600, figs. 1, 2.
Zittel and Schlosser 1911 A, 508, fig. 702.
1923 A, 598, fig. 743.
Lower Eocene (Wasatch); Wyoming.

Coryphodon ventanus Osborn.

Hay, O. P. 1902 A, 700.
Matthew, W. D. 1909 C, 94.
Osborn, H. F. 1909 D, 49.
Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 582.
Lower Eocene (Wind River); Wyoming, Colorado.

Coryphodon wortmani Osborn.

Hay, O. P. 1902 A, 700.
Matthew, W. D. 1909 C, 94.

Schlosser, M. 1902 E, 479.
Trouessart, E. L. 1905 A, 581.
  Lower Eocene (Wind River); Wyoming.

Coryphodon sp. indet.

Gidley, J. W. 1917 B, 59. Lower Eocene (Wasatch); Colorado, Wyoming.
  1926 E, 41. Lower Eocene (Wasatch); Wyoming.
Loomis, F. B. 1907 B, 357. Lower Eocene (Wasatch); Wyoming.
Merrill, G. P. 1907 A, 29-31.
Reeside, J. B. 1924 A, 46. Lower Eocene (Wasatch); Wyoming.
Sinclair and Granger 1911 A, 91. Lower Eocene (Wasatch); Wyoming.

EOBASILEIDÆ Cope.

Cope, E. D. 1873 X, 292.
Hay, O. P. 1902 A, 701 (Tinoceridæ); 700 (Bathyopsidæ).
Abel, O. 1913 B, 729 (Uintatheriidæ).
  1919 A, 818 (Dinoceratidæ).
  1922 C, 260 ("uintatherien").
Ameghino, F. 1905 C, 368, 375 (Uintatheridæ).
  1906 A, 323 (Uintatheridæ).
Arldt, T. 1907 D, 650 (Dinoceratidæ).
  1912 A, 700 (Uintatheridæ, Bathyopsidæ).
Case, E. C. 1899 B, 170 (Dinocerotidæ).
Cope, E. D. 1873 FF, 3.
Flower, W. H. 1876 B, xiii, 387 (Uintatheriidæ).
Gregory, W. K. 1910 A, 358 (Uintatheriidæ).
Hoernes, R. 1886 A, 667 (Dinoceratidæ).
Lydekker, R. 1914 A, 635 (Uintatheriidæ).
Matthew, W. D. 1909 C, 94, 97, 99, 102 (Eobasileidæ); 94, 97 (Uintatheriidæ).
  1909 D, 301 (Eobasileidæ, Uintatheriidæ).
Matthew, W. D. 1914 B, 387.
  1921 D, 214.
Osborn, H. F. 1909 D, 42, 45, 52, 57 (Uintatheriidæ).
  1910 B, 132, 547 (Uintatheriidæ).
Palmer, T. S. 1904 A, 775, 908 (Uintatheriidæ).
Reynolds, S. H. 1897 A, 364, 434 (Uintatheriidæ).
Scott, W. B. 1913 A, 269, 443, 692 (Uintatheriidæ).
Trouessart, E. L. 1905 A, 585 (Uintatheriidæ); 582 (Bathyopsidæ).
Van Bemmelen, J. F. 1918 A, 572 (Dinoceratidæ).
Weber and Abel 1928 A, 426, 626, 693 (Dinoceratidæ).
Wood, H. E. 1923 A, 601, 604 (Uintatheriidæ).
Zittel and Schlosser 1911 A, 508 (Dinoceratidæ).
  1923 A, 599, 667 (Dinoceratidæ).

BATHYOPSIS Cope. Type *B. fissidens* Cope.

Hay, O. P. 1902 A, 700.
Granger, W. 1910 A, 243.
  1914 A, 204.
Haug, E. 1911 A, 1528.
Lydekker, R. 1914 A, 635.
Matthew, W. D. 1909 C, 102.
  1928 B, 963, 970.
Matthew and Granger 1925 D, 5.
Osborn, H. F. 1907 G, 168, fig. 146.
  1909 D, 44, 45, 47.
  1910 B, 119, 130, 132, 137.
  1912 G, 236, fig. 3.
  1913 D, 417.
  1919 B, 558.
  1924 D, 2.
Palmer, T. S. 1904 A, 134, 908.
Schlosser, M. 1902 E, 473 (Bathiopsis).
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 275, 450, 455, 676.
Seeley, H. G. 1886 A, 470.
Trouessart, E. L. 1905 A, 582.
Weber and Abel 1928 A, 692, 695, fig. 483.
Wood, H. E. 1923 A, 599.
Zittel and Schlosser 1911 A, 508 (Syn. of Coryphodon).
  1923 A, 599, 666 (Syn. of Coryphodon).

Bathyopsis fissidens Cope.

Hay, O. P. 1902 A, 700.
Abel, O. 1914 A, 191, fig. 147.
  1922 C, 261, figs. 213, 214.
Matthew, W. D. 1909 C, 94.
Osborn, H. F. 1913 D, 417, pls. lxiv-lxvi; text-fig. 1 (This species?).
Trouessart, E. L. 1905 A, 582.
  Lower Eocene (Wind River); Wyoming.

Bathyopsis sp. indet.

Sinclair and Granger 1912 A, 60. Paleocene (Fort Union?); Wyoming.
Wood, H. E. 1923 A, 601. Lower Eocene or Paleocene (Clark Fork); Wyoming.

UINTATHERIUM Leidy. Type *U. robustum* Leidy.

Hay, O. P. 1902 A, 701 (Uintatherium); 702 (Dinoceras); 703 (Tinoceras).
Abel, O. 1912 F, 573.
  1922 C, 261, fig. 215.
Ameghino, F. 1904 A, 367 (Uintatherium); 387 (Dinoceras).
  1905 A, 63 (Uintatherium); 389 (Dinoceras).
Andrews, C. W. 1906 A, xix.
Baird, S. F. 1876 A, 357.
Beddard, F. E. 1902 A, 206, 210 (Tinoceras, Dinoceras).
Boule, M. 1902 B, 911, fig. 20 (Dinoceras).
Cook, H. J. 1926 A, 8 ("uintatheres").
Cope, E. D. 1873 FF, 2 (Tinoceras).
Delafontaine, M. 1875 A, 173 (Dinoceras, Tinoceras).
Depéret, C. 1902 A, 324 (Dinoceras).
Eastman, C. R. 1912 C, 659.
Gaudry, A. 1896 A, 87 (Dinoceras).
  1898 A, 128.
  1906 A, 7, 17 (Dinoceras).
  1906 B, 111 (Dinoceras).
Gidley, J. W. 1917 A, 433.
Granger, W. 1909 A, 22.

Gregory, W. K. 1912 F, 285.
1920 A, 181, fig. 141 (Dinoceras).
Haug, E. 1911 A, 1528 (Uintatherium, Dinoceras, Tinoceras).
Heilprin, A. 1887 A, 367 (Uintatherium, Dinoceras, Tinoceras).
Hoernes, R. 1886 A, 667 (Dinoceras).
1912 A, 661 (Dinoceras).
Hutchinson, H. N. 1910 A, 254, pl. xli (Tinoceras).
Lankester, E. R. 1905 A, 149 (Dinoceras).
Leche, W. 1887 A (Dinoceras).
Loomis, F. B. 1921 A, 192.
Lucas, F. A. 1902 B, 228, fig.
Lull, R. S. 1917 B, 301, 556, fig. 180 (Dinoceras).
Matthew, W. D. 1909 C, 102.
1915 K, 464, fig. 36 (Dinoceras).
1924 E, 748.
1928 B, 963, 969, fig. 11.
Matthew and Granger 1925 D, 5 ("Dinoceras").
Osborn, H. F. 1898 V, 206.
1905 H, 213 (Tinoceros).
1905 L, 567.
1907 G, 166, fig. 142.
1909 D, 23, 51, 52, 53.
1910 A, 206.
1910 B, 166, 547 (Tinoceras); 155, 163-166, 173, 547, fig. 71 (Uintatherium).
1912 G, 237, 241, fig. 6.
1913 D, 419.
1917 B, 259 (Dinoceras).
1924 D, 2, 4 (Dinoceras); 4 (Uintatherium).
Oswald, F. 1909 A, 567.
Palmer, T. S. 1904 A, 699, 908 (Uintatherium); 680, 908 (Tinoceras); 232, 908 (Dinoceras).
Reynolds, S. H. 1897 A, 433, 473, 510, 514, 519, 558.
Schlosser, M. 1899 I, 349.
1901 A, 491.
1902 E, 473.
1911 A, 140.
Schuchert, C. 1910 A, 599.
Schuchert and Levene 1927 A, 333, fig.
Scott, W. B. 1913 A, 444, 449, 451.
Seeley, H. G. 1886 A, 473 (Uintatherium, Loxolophodon).
Steinmann, G. 1908 A, 262, figs. 168, 170, 171 (Dinoceras).
Thorpe, M. R. 1922 B, 282 (Dinoceras).
Trouessart, E. L. 1905 A, 586 (Uintatherium, Dinoceras, Tinoceras).
Wallace, A. R. 1876 A, I, 139 (Uintatherium, Dinoceras).
Wasmuth, P. 1905 A, 61 (Dinoceras).
Weber, M. 1904 A, 702 (Tinoceras).
Weber and Abel 1928 A, 693, 694, fig. 486.
Winge, H. 1906 A, 76 (Dinoceras).
Wood, H. E. 1923 A, 599.
Wortman, J. L. 1921 A, 186.
Zittel and Schlosser 1911 A, 509.
1923 A, 599 (Uintatherium); 600 (Tinoceras).

Uintatherium affine (Marsh).

Hay, O. P. 1902 A, 704 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium agreste (Marsh).

Hay, O. P. 1902 A, 702 (Dinoceras).
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium alticeps Scott.

Hay, O. P. 1902 A, 702.
Scott, W. B. 1913 A, 445, 447, figs. 230, 231.
Trouessart, E. L. 1905 A, 587.
Weber and Abel 1928 A, 694, fig. 485.
Middle Eocene (Bridger); Wyoming.

Uintatherium anceps (Marsh).

Hay, O. P. 1902 A, 704 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium annectens (Marsh).

Hay, O. P. 1902 A, 704 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium crassifrons (Marsh).

Hay, O. P. 1902 A, 704 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium cuneum (Marsh).

Hay, O. P. 1902 A, 703 (Dinoceras).
Middle Eocene (Bridger); Wyoming.

Uintatherium distans (Marsh).

Hay, O. P. 1902 A, 703 (Dinoceras).
Cope, E. D. 1873 FF, 7 (Tinoceras).
Merrill, G. P. 1907 A, 34 (Dinoceras).
Middle Eocene (Bridger); Wyoming.

Uintatherium grande (Marsh).

Hay, O. P. 1902 A, 704 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium hians (Marsh).

Hay, O. P. 1902 A, 705 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium ingens (Marsh).

Hay, O. P. 1902 A, 705 (Tinoceras).
Ameghino, F. 1905 A, 42, fig. 46 (Tinoceras).
1905 C, 377, fig. 16 (Tinoceras).
Boule, M. 1902 B, 911, fig. 18 (Dinoceras).
Cook, H. J. 1926 A, 8.
Koken, E. 1893 B, 477 (Tinoceras).
Lull, R. S. 1917 B, 557, fig. 181 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Shufeldt, R. W. 1889 D, 4, fig. (Tinoceras).
1916 B, 40 (Tinoceras).
Woodward, A. S. 1898 B, 297, fig. 170 (Tinoceras).
1923 C, 50, fig. 37 (Tinoceras).
Middle Eocene (Bridger); Wyoming.

Uintatherium jugum (Marsh).

Hay, O. P. 1902 A, 705 (Tinoceras).
Middle Eocene (Bridger); Wyoming.

Uintatherium lacustre (Marsh).

Hay, O. P. 1902 A, 705 (Tinoceras).
Middle Eocene (Bridger); Wyoming.

Uintatherium laticeps (Marsh).

Hay, O. P. 1902 A, 703 (Dinoceras).
Abel, O. 1922 C, 181, fig. 146.
1925 A, 21, fig. 18.
Ameghino, F. 1905 C, 378, fig. 17.
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium latifrons Marsh.

Hay, O. P. 1902 A, 702.
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium latum (Marsh).

Hay, O. P. 1902 A, 705 (Tinoceras).
Middle Eocene (Bridger); Wyoming.

Uintatherium leidianum Osborn, Scott and Speir.

Hay, O. P. 1902 A, 702.
Matthew, W. D. 1909 C, 97 (U. leidyanum).
Middle Eocene (Bridger); Wyoming.

Uintatherium longiceps (Marsh).

Hay, O. P. 1902 A, 705 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium lucare (Marsh).

Hay, O. P. 1902 A, 703 (Dinoceras).
Matthew, W. D. 1909 C, 97.
Wood, H. E. 1923 A, 602, fig. 3.
Middle Eocene (Bridger); Wyoming.

Uintatherium mirabile (Marsh).

Hay, O. P. 1902 A, 703 (Dinoceras).
Abel, O. 1912 F, 581, fig. 451.
1913 B, 747, fig. 71.
1914 A, 191, fig. 148.
Ameghino, F. 1904 A, 68, 371, 389, fig. 65.
1905 A, 40, figs. 44, 45.
1905 C, 378, figs. 18, 19.
Boule, M. 1891 A, 33, fig. 10 (Dinoceras).
Cope, E. D. 1873 FF, 2, 8.
Gaudry, A. 1906 A, 13, 15, figs. 16, 28 (Dinoceras).
Lankester, E. R. 1905 A, 148, figs. 104, 105 (Dinoceras).
Lull, R. S. 1917 B, 557, fig. 181.
Matthew, W. D. 1909 C, 97.
Osborn, H. F. 1910 B, 155, fig. 56.
Reynolds, S. H. 1897 A, 516, fig. 108.
Schmidt, O. 1886 A, 241, fig. 44 (Dinoceras).
Shufeldt, R. W. 1889 D, 8, fig. (Dinoceras).
Thorpe, M. R. 1922 B, 282 (Dinoceras).
Trouessart, E. L. 1905 A, 585 (Dinoceras).
Weber and Abel 1928 A, 693, fig. 484.
Zittel and Schlosser 1911 A, 509, figs. 705, 706.
1923 A, 599, figs. 746, 747.
Middle Eocene (Bridger); Wyoming.

Uintatherium princeps Osborn, Scott and Speir.

Hay, O. P. 1902 A, 702.
Trouessart, E. L. 1905 A, 587.
Middle Eocene (Bridger); Wyoming.

Uintatherium pugnax (Marsh).

Hay, O. P. 1902 A, 705 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Wood, H. E. 1923 A, 602, fig. 3.
Middle Eocene (Bridger); Wyoming.

Uintatherium reflexum (Marsh).

Hay, O. P. 1902 A, 703 (Dinoceras).
Middle Eocene (Bridger); Wyoming.

Uintatherium robustum Leidy.

Hay, O. P. 1902 A, 702.
Cope, E. D. 1873 FF, 1, 8.
Matthew, W. D. 1909 C, 97.
Ruschenberger and Tryon 1879 A, 14.
Middle Eocene (Bridger); Wyoming.

Uintatherium segne Marsh.

Hay, O. P. 1902 A, 702.
Middle Eocene (Bridger); Wyoming.

Uintatherium speirianum (Osborn).

Hay, O. P. 1902 A, 705 (Tinoceras).
Cook, H. J. 1926 A, 8.
Matthew, W. D. 1909 C, 97 (This genus?).
Middle Eocene (Bridger); Wyoming.

Uintatherium stenops (Marsh).

Hay. O. P. 1902 A, 705 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Wood, H. E. 1923 A, 600, figs. 1, 4.
Middle Eocene (Bridger); Wyoming.

Uintatherium vagans (Marsh).

Hay, O. P. 1902 A, 705 (Tinoceras).
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Uintatherium sp. indet.

Hay, O. P. 1902 A, 702.
Figgins, J. D. 1925 A, 17. Eocene; Colorado.
Matthew, W. D. 1909 C, 97. Eocene (Huerfano); Colorado.

UINTACOLOTHERIUM Cook. Type *U. blayneyi* Cook.

Cook, H. J. 1926 A, 7.

Uintacolotherium blayneyi Cook.

Cook, H. J. 1926 A, 7, 5 pls.
1926 B, 12.
Middle Eocene (Bridger); Colorado.

ELACHOCERAS Scott. Type *E. parvum* Scott.

Hay, O. P. 1902 A, 705.
Heilprin, A. 1887 A, 367.
Osborn, H. F. 1913 D, 420.
Palmer, T. S. 1904 A, 253, 908.
Scott, W. B. 1913 A, 451, 455.
Zittel and Schlosser 1923 A, 599.

Elachoceras parvum Scott.

Hay, O. P. 1902 A, 705.
Osborn, H. F. 1913 D, 419, figs. 2-4.
Scott, W. B. 1913 A, 449, fig. 232.
Middle Eocene (Bridger); Wyoming.

EOBASILEUS Cope. Type *E. pressicornis* Cope.

Cope, E. D. 1872 RR, 2.
Hay, O. P. 1902 A, 706.
Abel, O. 1913 B, 747, fig. 72.
1914 A, 192, fig. 149.
1920 A, 440, fig. 669.
1922 C, 263, fig. 216.
Cope, E. D. 1872 SS, 1 (Loxolophodon).
Gaudry, A. 1893 A, 22 (Loxolophodon).
Granger, W. 1909 A, 22.
Heilprin, A. 1887 A, 367.
Matthew, W. D. 1909 C, 97, 102.
1924 E, 748 (Eobashæus).
1928 B, 970.
Osborn, H. F. 1909 D, 23, 53, 54, 56.
1910 A, 208.
1910 B, 614, figs. 49, 66.
Palmer, T. S. 1912 G, 237, 241, fig. 6.
1924 D, 5.
1904 A, 262, 908.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 449, 451, 455.
Trouessart, E. L. 1905 A, 587.
Wallace, A. R. 1876 A, I, 139.

Eobasileus cornutus Cope.

Cope, E. D. 1872 RR, 2.
Hay, O. P. 1902 A, 704 (Tinoceras).
Cope, E. D. 1872 SS, 2 (Loxolophodon).
1873 FF, 1 (Loxolophodon).
1891 N, 82, fig. 54 (Loxolophodon).
Granger, W. 1909 A, 14, 19.
Matthew, W. D. 1909 C, 99.
Osborn, H. F. 1904 F, 42 (Uintatherium).
Seeley, H. G. 1886 A, 472, fig. (Loxolophodon).
Williams, H. S. 1897 A, 678, fig.
Upper Eocene (Uinta); Wyoming.

Eobasileus furcatus Cope.

Hay, O. P. 1902 A, 706.
Cope, E. D. 1872 SS, 2 (Loxolophodon).
1873 FF, 1.
Matthew, W. D. 1909 C, 99.
Seeley, H. G. 1886 A, 472.
Upper Eocene (Washakie?); Wyoming?

Eobasileus galeatus Cope.

Hay, O. P. 1902 A, 704 (Tinoceras).
Matthew, W. D. 1909 C, 99.
Upper Eocene (Uinta?); Wyoming.

Eobasileus pressicornis Cope.

Hay, O. P. 1902 A, 706.
Cope, E. D. 1872 SS, 2 (Loxolophodon).
1873 FF, 1.
Matthew, W. D. 1909 C, 99.
Seeley, H. G. 1886 A, 472.
Upper Eocene (Uinta?); Wyoming?

Eobasileus sp. indet.

Matthew, W. D. 1909 C, 99. Upper Eocene (Washakie); Wyoming.

Order PROBOSCIDEA Illiger.

Illiger, C. 1811 A, 96.
Hay ,O. P. 1902 A, 706.
Abel, O. 1907 C, (79) ("proboscidier").
1910 B, (186) ("proboscidier").
1912 F, 242, 547 ("proboscidier").
1913 B, 729, 748.
1914 A, 122, 191.
1919 A, 819.
1920 A, 440.
1922 B, 2 ("proboscidier").
Adloff, P. 1902 A, 197.
1903 A, 359 ("proboscidier").
1910 B, 232 ("proboscidier").
Ameghino, F. 1889 A, 1023.
1893 B, 443 ("proboscideans").
1901 A, 386.
1902 A, 19.
1902 B, 7 ("proboscideos").
1906 A, 329 ("proboscidiens").
1912 B, 170 ("proboscidien").
Anderson, R. J. 1902 A, 1121.
1912 D, 252.
Andrews, C. W. 1901 A, 409.
1902 A, 295.
1903 B, 99-118.
Andrews, C. W. 1903 C, 1.
1903 E, 225.
1906 A, xv, 99.
1908 A, 393.
1908 D, 4, 45.
1909 C, 305.
1912 A, 454.
1921 B, 533 ("elephants and mastodons").
1922 B, 1, 47.
1924 A, 304.
Arldt, T. 1907 C, 677.
1907 D, 676.
Bach, F. 1910 A ("proboscidier").
Barbour, E. H. 1914 B, 177.
1915 B, 221.
Bardeleben, K. 1885 B, 85.
Beddard, F. E. 1902 A, 216.
Behlen, H. 1906 A, 197 ("proboscidier").
Berry, E. W. 1922 A, 108.
Boas, J. E. V. 1914 B, 587, fig. 38.
Bolk, L. 1913 A, 120 ("proboscidier").
1922 A, 124.
Boule, M. 1902 B, 913 ("proboscidiens").
Boule and Thevenin 1920 A, 1 ("proboscidiens").
Braus, H. 1906 A, 304 ("proboscidier").

Burmeister, H. 1879 B, 520.
Carus, V. 1875 A, 137.
Case, E. C. 1899 B, 176.
Clark and Sonntag 1926 A, 453, 461, 463.
Cooper, C. F. 1922 D, 609.
Cope, E. D. 1885 BB, 72 (Proboscidia).
    1891 N, 67, 84, 90, fig. 55.
Deninger, K. 1913 A, 295.
Depéret, C. 1908 A, 304.
Diener, C. 1909 A, 39.
Dietrich, W. O. 1913 A, 49 ("proboscidier").
    1916 A.
Dollo, L. 1889 I, 680 ("proboscidiens").
Doran, A. H. G. 1878 A, 430.
Eales, N. B. 1926 A, 491, 539.
Eastman, C. R. 1904 A, 890.
Fairchild, H. L. 1887 A, 19.
Falconer and Cautley 1847 A.
Falconer and Murchison 1867 A.
Fischer, E. 1903 A, 713.
Frick, C. 1926 B, 123.
Gaudry, A. 1906 A, 709 ("proboscidiens").
    1912 A, 8 ("proboscidiens").
Gaupp, E. 1913 A, 125 ("proboscidier").
Gawrilenko, A. 1924 A, 218 ("proboscidier").
Gervais, P. 1852 A, 32 ("proboscidiens").
    1859 A, 58 ("proboscidiens").
Giebel, C. G. 1883 A ("proboscidien").
Goodsir, J. 1857 A.
Gray, J. E. 1821 A, 305 (Proboscidiæ).
Gregory, W. K. 1903 A, 387, pl. xxiii, figs. 1-4 (Elephas).
    1910 A, 70, 345, 366, 665.
    1912 F, 270.
    1920 A, 180, 244.
    1927 J, 441 ("proboscideans").
Haeckel, E. 1873 A, 544.
Hay, O. P. 1912 D, 655.
    1914 A, 328.
    1923 B, 109.
    1924 E, 110.
Heilprin, A. 1887 A, 365.
Hoernes, R. 1886 A, 683.
Hollard, H. 1864 C, 362 ("proboscidiens").
Huxley, T. H. 1868 C, 318.
    1870 F, 532.
Kampfen, P. N. 1905 A, 619.
Kingsley, J. S. 1925 A, 217, 261.
Knottnerus-Meyer, T. 1907 A, 3, 96, 101.
Koken, E. 1893 B, 485 (Proboscidia).
Kükenthal, W. 1913 A, 683.
Laloy, L. 1907 A, 584 ("proboscidiens").
Larger, R. 1913 A, 727 ("proboscidiens").
Lartet, E. 1859 A, 469 ("proboscidiens").
Lavocat, A. 1885 A, 46 ("proboscidiens").
Leche, W. 1887 A.
    1900 A, 1030.
    1921 A, 72.
Le Damany, P. 1903 G, 322 ("proboscidiens").
Leunis and Ludwig 1883 A, 232.
Lull, R. S. 1904 C, 9.
    1908 A, 169 ("elephants").
    1909 A, 641, 665 ("proboscidians").
    1914 E, 61.
    1917 B, 577.
    1918 C, 136 ("proboscideans").
Lydekker, R. 1907 B, 68.
    1907 E, 673.
Lydekker, R. 1910 F, 663.
Macloskie, G. 1884 A, 215.
Major, C. J. F. 1880 A, 38.
    1899 B, 62.
Matsumoto, H. 1923 A, 97-140.
    1924 A, 55.
Matthew, W. D. 1909 C, 116, 119, 120.
    1910 G, 159.
    1910 H, 477 ("proboscideans").
    1912 A, 156.
    1915 A, 254, 257.
    1915 B, 21.
    1915 K, 461.
    1916 B, 26.
    1916 C, 521.
    1916 G, 486.
    1918 C, 141.
    1923 F, 520.
    1924 E, 745.
    1928 B, 948.
Menmuir, W. H. 1902 A, 275.
Mitchell, P. C. 1905 A, 466.
Moreau, L. 1914 A, 87 ("proboscidiens").
Osborn, H. F. 1902 E, 356, fig. 1.
    1905 H, 226, fig. 2.
    1905 I, 106.
    1905 N, 242.
    1906 B, 56.
    1907 G, 15, 186.
    1907 K, 819.
    1909 D, 134.
    1909 E, 139.
    1910 B, 628.
    1912 I, 782.
    1915 C, 222.
    1917 B, 319.
    1918 C, 134.
    1919 D, 265 ("proboscideans").
    1921 A, 1-15 (Superfamilies Mœritherioidea, Dinotherioidea, Mastodontoidea, Elephantoidea).
    1921 D, 6.
    1921 E, 231.
    1922 D, 721, 722.
    1922 G, 448.
    1924 J, 114.
    1925 A, 5.
    1925 B, 17-35.
    1925 F, 962 ("proboscideans").
    1926 C, 341.
Owen, R. 1857 E.
    1858 A, 27.
    1868 A, 903.
Paulli, S. 1900 A, 235.
Perrier, E. 1920 A, 357 ("proboscidiens").
Peterson, O. A. 1912 B, 164.
    1928 A, 111.
Petronievics, B. 1921 A, 102, 117 ("proboscidiens").
    1923 B, 55.
Pictet, F. J. 1853 A, 279 ("proboscidiens").
Pohlig, H. 1886 A.
Popowa, N. 1913 A, 280 ("proboscidier").
Reynolds, S. H. 1897 A, 551.
Rutten, L. M. R. 1909 A, 10.
Scharff, R. F. 1911 A, 230.
Schlesinger, G. 1912 A, 87-182.
Schlosser, M. 1898 B, 360.

Schlosser, M. 1902 J, 257.
1903 G, 145.
1903 I, 178 (Proboscidia).
1911 A, 129, 153.
Schmidt, O. 1886 A, 227 (Proboscidæ).
Schuchert, C. 1915 A, 940.
Schuchert and Levene 1927 A, 348.
Sclater, P. L. 1875 A, 209.
Scott, W. B. 1913 A, 238, 422, 688.
1916 A, 116.
1928 A, 330.
1928 B, 255.
Seeley, H. G. 1886 A, 464.
Shufeldt, R. 1911 A, 73.
Steinmann, G. 1907 A, 481.
1909 A, 81 ("proboscidier").
1912 B, 718 ("proboscidier").
Stromer, E. 1902 B, 561 ("proboscidier").
1912 A, 217, 245.
1916 A, 402, 404.
Terra, P. 1911 A, 333.
Thacker, A. G. 1914 A, 283 ("proboscidians").
1922 A, 600, 603.
Tims, H. W. M. 1903 A, 144.
Trouessart, E. L. 1905 A, 596.
Villada, M. M. 1903 A, 450 ("proboscideos").
Wallace, A. R. 1876 A, I, 500; II, 227, 542.
Weber, M. 1904 A, 589, 715.
Weber and Abel 1928 A, 425, 426, 445, 459, 894 (Subungulata, Proboscidea).
Weber and Burlet 1927 A.
Williston, S. W. 1912 E, 261.
Winge, H. 1906 A, 68, 71, 166, 172 (Proboscidea, Elephantidæ).
Woodward, A. S. 1923 C, 55.
Woodward, H. 1904 B, 157.
Wortman, J. L. 1921 A, 186.
Zietzschmann, O. 1917 A, 440.
Zittel and Schlosser 1911 A, 532.
1923 A, 624, 636.

ELEPHANTIDÆ Gray.

Gray, J. E. 1821 A, 305.
Hay, O. P. 1902 A, 707.
Abel, O. 1912 F, 232, 547, 557 ("elephanten").
1913 B, 729, 750.
1914 A, 192, 197.
1919 A, 826.
1920 A, 445.
Airaghi, C. 1917 A, 197 ("elefantidi").
Ameghino, F. 1889 A, 1011.
Andrews, C. W. 1908 D ("elephants").
1922 B, 1 ("elephants").
Arldt, T. 1907 D, 652.
1912 A, 746 (Elefantidæ).
Barbour, E. H. 1927 A, 133 (Amebelodontidæ).
Beddard, F. E. 1902 A, 217.
Berry, E. W. 1922 A, 108 ("elephants").
Boas, J. E. V. 1914 B, 577 ("elefanten").
Bonaparte, C. L. 1832 A, 9 ("elephantoiden"); 293 (Elephantina).
Branca, W. 1907 A, 9 ("elephanten").
Brandes, G. 1900 A, 103 ("elefanten").
Carus, J. V. 1875 A, 140 (Elephantina).
Chandler, A. C. 1914 B, 139 ("elephants").
Cope, E. D. 1880 U, 152.
1885 EE, 606 ("elephants").
Cuvier, G. 1805 A ("éléphans").
1806 D ("éléphants").
1825 A, I, 1-204, pls. i-xii ("éléphans").
Depéret, C. 1907 B ("éléphants").
1912 A, 709 ("éléphants").
Depéret and Mayet 1923 A.
Dietrich, W. O. 1916 A.
Dollo, L. 1889 I, 681.
Eichwald, E. 1835 A, 694 ("elephantes").
Falconer, H. 1863 A ("elephants").
Gadow, H. 1913 A, 128 ("elephants").
Giebel, C. G. 1883 A ("elephanten").
Grant, E. 1842 A, 770 ("mastodontoid animals").
Gray, J. E. 1825 B, 343.
Gregory, W. K. 1927 J, 440 ("elephants").
Hay, O. P. 1912 D, 655.
1914 A, 328.
1923 A, 5, 312.
Hilzheimer, M. 1913 A, 567 ("elephanten").
Hogben, L. T. 1919 A, 75 ("elephants").
Hutchinson, H. N. 1910 A, 264 ("elephants").
Jacobi, A. 1921 A, 200, 218.
Knottnerus-Meyer, T. 1907 A, 3, 96, 101.
Koch, A. C. 1845 A, 7 ("mastodontoiden").
Köstlin, O. 1844 A ("elephanten").
Kunz, G. F. 1916 A, 323, 330.
Lankester, E. R. 1905 A, 103 ("elephants").
Leunis and Ludwig 1883 A, 233 (Elephantina).
Lobley, J. L. 1908 A, 205.
Lönnberg, E. 1907 B, 53 ("elefanterna").
Lucas, F. A. 1906 A, 157.
Lull, R. S. 1908 A, 169 ("elephants").
1914 E, 61 ("elephants").
1921 B, 160 (Mammotinæ).
Lydekker, R. 1902 B, 374 ("elephants").
1903 D, 124 ("elephants").
1903 E, 169 ("elephants").
Matthew, W. D. 1909 C, 116, 119, 120.
1913 B, 291.
1915 K, fig. 17 ("elephants").
Mayet and Roman 1923 A.
Meckel, J. F. 1825 A ("elephanten").
Natural Science 1898 A, 371 ("elephants").
Osborn, H. F. 1918 C, 135.
1921 E, 234 (Elephantoidea).
1922 G, 455 (Elephantoidea, Mammontinæ, Elephantinæ).
1924 G, 1.
1925 B, 20, 28 (Elephantidæ, "archidiskodonts").
Palacký, J. 1903 B, 313 ("elephanten").
Pander and Alton 1821 B, 3 ("elephanten").
Pompeckj, J. F. 1925 A, 13 ("elephanten").
Pontier, G. 1911 A, 463 ("éléphants").
Raspé, R. E. 1769 A, 126 ("elephanti").
Reynolds, S. H. 1897 A, 364, 434.
Salensky, W. 1903 A, 793.
Schoenichen, W. 1900 A, 501 ("elephanten").
Schwarz, E. 1924 A, 420 ("elephants").
Scott, W. B. 1913 A, 432, 680.
1917 A, 175 ("elephants").
Sellards, E. H. 1915 C, 8 ("elephants").
Soergel, W. 1913 A, 1, 89 ("elephanten").
1914 A, 21 ("elephanten").

Soergel, W. 1915 A, 179, 278 ("elepanten").
1915 B, 1-65.
Stefanescu, S. 1915 A, 100 ("éléphants").
Steinmann, G. 1907 A, 482.
Terra, P. 1911 A, 335.
Thacker, A. G. 1914 A, 283 ("elephants").
Tornier, G. 1909 C, 540 ("elefanten").
Tornquist, A. 1897 A, 683 ("elephanten").
Trouessart, E. L. 1905 A, 599.
Van Bemmelen, J. F. 1918 A, 575.
Vicq-d'Azyr, F. 1792 A, cvii (Elephantini).
Wagner, R. 1843 A ("elephanten").
Wallace, A. R. 1876 A, II, 227.
Weber, M. 1904 A, 724.
Weber and Abel 1928 A, 471.
Winge, H. 1906 A, 71, 166 (Elephantini).
Woodward, A. S. 1898 E, 331 ("elephants").
1923 A, 32 ("elephants").
Wright, G. F. 1911 B, 436, 437, 624 ("elephants").
Zittel and Schlosser 1911 A, 537.
1923 A, 628, 636.

MAMMUTINÆ, new name.

Abel, O. 1914 A, 192 ("tetrabelodontiden").
1922 C, 178 ("mastodonten").
Bach, F. 1910 A, 63 ("mastodontiden").
Capellini, G. 1907 A, 127 (Mastodonti).
Depéret, C. 1923 A, 520 ("mastodontes").
Dietrich, W. O. 1919 A, 55 ("mastodonten").
1921 A, 595 (Mastodon).
Frech, F. 1906 A, 407 ("mastodonten").
Freudenberg, W. 1922 A, 5 (Mastodontidæ).
Gaudry, A. 1891 B ("mastodontes").
Gawrilenko, A. 1924 A, 233 ("mastodonten").
Gill, T. 1872 B, 13, 90 (Mastodontinæ).
Gray, J. E. 1821 A, 306 (Mastodonadæ).
Hay, O. P. 1924 D, 380 ("mastodons").
1925 E, 381 ("mastodons").
1927 E, 77 ("mastodons").
Ihering, H. 1909 A, 285 ("mastodonte").
Joleaud, L. 1919 D, 414 (Mastodontinæ).
Lartet, E. 1859 A, 470 ("mastodontes").
Matthew, W. D. 1923 A, 12 (Mastodontidæ, Trilophodontidæ).
Osborn, H. F. 1906 C, 776 (Mastodontinæ).
1909 D, 81 (Mastodontidæ).
1910 B, 500, 558, 622 (Mastodontinæ).
1918 C, 134 (Mastodontidæ, with subfams. Bunomastodontinæ and Mastodontinæ).
1921 A, 2 (Bunomastodontidæ, Mastodontidæ); 2, 3 (Mastodontoidea); 5 (Rhynchorostrinæ); 6 (Longirostrinæ); 11 (Brevirostrinæ); 12 (Mastodontinæ).
1921 E, 232 (Bunomastodontidæ, Notorostrinæ, Longirostrinæ, Rhynchorostrinæ, Brevirostrinæ).
1922 F, 4 (Mastodontinæ).
1922 G, 454 (Mastodontoidea, Mastodontidæ, Mastodontinæ, Serridentinæ, Bunomastodontidæ, Longirostrinæ, Notorostrinæ, Rhynchorostrinæ, Brevirostrinæ).
1924 H, 1 (Longirostrinæ).
1925 A, 5, 14, 16 (Mastodontinæ, Longirostrinæ, "tetralophodonts," "serridentines," "rhynchorotrines," "notorostrines," "brevirostrines," "southern mammoths").
1925 B, 20, 22-27, figs. 2, 3 (Mastodontidæ, Bunomastodontidæ, "longirostrines," "tetralophodonts," "serridentines," "rhynchorostrines," "notorostrines," "brevirostrines," "zygolophodonts").
1926 B, 8 (Serridentinæ).
Palacký, J. 1903 B, 311 ("mastodonten").
Scharff, R. F. 1911 A, 408 ("mastodons").
Schlesinger, G. 1921 A, 3 (Mastodon).
Scott, W. B. 1928 A, 330 ("mastodons").
Stefanescu, S. 1918 A, 739 ("mastodontes").
1919 A, 97 ("mastodontes").
1919 E, 1329 ("mastodontes").
1919 F, 148 ("mastodontes").
1921 A, 929 ("mastodontes").
1921 B, 1054 ("mastodontes").
1921 C, 1516 ("mastodontes").
1921 D, 1669 ("mastodontes").
Stromer, E. 1908 B, 170 (Mastodontidæ).
1912 A, 220, 226 (Mastodontinæ).
Troxell, E. L. 1923 A, 89 ("bunodonts," "zygodonts," "chœrodonts").
Weber and Abel 1928 A, 464, 470 (Mastodontidæ).

MAMMUT Blumenbach. Type *M. ohioticum* Bluemenbach=*Elephas americanus* Kerr.

Unless otherwise indicated the authors here cited use the name Mastodon.

Hay, O. P. 1902 A, 707 (Mammut).
Abel, O. 1912 F, 557.
1914 A, 193.
1919 A, 827.
Adams, C. C. 1905 A, 54 ("mastodon").
Ameghino, F. 1897 B, 263.
1902 A, 39.
1902 B, 9.
1902 D, 427.
1906 A, 285.
Andrews, C. W. 1903 B, 102.
1906 A, xix.
1908 A, 406.
Anonymous 1854 A, 447 ("mastodon").
Arldt, T. 1907 C, 677.
1907 D, 664.
Baker, F. C. 1920 A, 463.
Beddard, F. E. 1902 A, 230.
Blainville, H. M. D. 1864 A, III, 232.
Blake, C. C. 1861 A, 469.
Boas, J. E. V. 1914 B, 588.
Botti, U. 1901 A, 440.
Branca, W. 1907 A, 9 ("mastodonten").
Brandt and Woldrich 1887 A, 98.
Bronn, H. G. 1848 A, 705.
1848 B, 1260 (Tetracaulodon).
1849 A, 703.
Capellini, G. 1907 A.
Case, E. C. 1899 B, 177 ("mastodon").
Cope, E. D. 1880 U, 158.
1895 G, 596.
Cuvier, G. 1799 A, 21 (Elephas).
1806 D, 311 (Mastodonta).
Desmarest, A. G. 1822 A, 384.

Dollo, L. 1889 I, 682.
Drayton, J. 1802 A, 39, 41, pl., fig. 4 ("carnivorous animal").
Eichwald, E. 1835 A, 734.
Emrich, C. T. 1909 A, 36 ("mastodon." This genus?).
Fairchild, H. L. 1887 A, 20.
Fischer de Waldheim, G. 1832 A, 169 (Mastotherium); 181 (Tetracaulodon).
Fischer, J. B. 1829 A, 407.
Frech and Geinitz 1903 A, 11.
Freudenberg, W. 1922 A, 33.
Frick, C. 1926 B (Mastodon).
Gaudry, A. 1891 B.
    1906 A, 8 ("mastodontes").
Gervais, P. 1859 A, 64 ("mastodon").
Giebel, C. G. 1855 A, 78.
    1883 A.
Gilmore, C. W. 1908 A (Mammut).
Grant, E. 1842 A, 771 (Mastodon, Tetracaulodon).
Gregory, W. K. 1903 A, 387.
    1912 F, 280, figs. 3, 4.
Hartnagel and Bishop 1921 A, 1-66 (Mastodon).
Hay, O. P. 1910 D, 372 ("mastodon").
    1912 D, 657 (Mammut).
    1914 A, 330 (Mammut).
    1923 A, 489.
    1925 E, 381 (Mammut, Mastodon).
Heilprin, A. 1887 A, 366 ("mastodon").
Hermann, R. 1908 A, 305.
Holmes, F. S. 1870 A, 17, 31.
Hull, E. 1914 A, 616.
Huxley, T. H. 1870 F, 542.
Koch, A. C. 1845 A, 12 (Mastodon, Tetracaulodon, Missurium); 21 (Tetracaulodon).
Kollmann, J. 1884 A, 184 ("mastodonten").
Larger, R. 1913 A, 708 ("mastodontes").
Lartet, E. 1859 A, 482.
Leche, W. 1887 A.
    1900 A, 1030 (Mastodon).
Leunis and Ludwig 1883 A, 235.
Lindgren, W. 1911 A, 52.
Loewe, S. 1914 A, 791.
Lucas, F. A. 1907 A, 46 ("mastodons").
    1907 B, 837 ("mastodon").
Lull, R. S. 1908 A, 192 (Mammut).
    1909 A, 659 (Mammut).
    1917 B, 592.
Maddren, A. G. 1901 A.
Matsumoto, H. 1918 C, 80 (Trilophodon).
    1924 A, 58.
Matthew, W. D. 1909 C, 120 (Trilophodon).
    1910 G, 154.
    1915 A, 187 (Mastodon); 255 (Dibelodon).
    1915 B, 12 (Mammut).
    1916 C, 522 ("mastodon").
    1918 A, 201.
    1924 E, 748.
Matthew and Cook 1909 A, 367 (Trilophodon).
Meyer, H. 1867 C, 785 (Mammut, Mastodon).
Osborn, H. F. 1905 D, 315 ("mastodonts").
    1909 D, 129.
    1910 B, 622.
    1912 G, 251.
    1918 C, 137, table.
    1921 B, 1.
    1921 C, 108.
Osborn, H. F. 1925 D, 532 (Mastodon).
    1926 A, 188 ("mastodon").
Owen, R. 1868 A, 892, fig. 216.
Palmer, T. S. 1904 A, 397, 943 (Mammut).
Pompeckj, J. F. 1905 A, 17.
Rutland, J. 1901 A, 21032 ("mastodons").
Scharff, R. F. 1911 A, 61, 153, 358.
Schlesinger, G. 1912 A (Mastodon, Mammut).
    1921 A, 3 (Mammut, as subgenus).
Schmidt, E. 1872 A, 233, 250 ("mastodon").
Schmidt, O. 1886 A, 74, 231, fig. 40 ("mastodon").
Scott, W. B. 1913 A, 207, 429, 437, 685.
Shimek, B. 1908 A, 923 (Mammut).
Shumard, B. F. 1863 A, 141.
Sillimann, B. 1855 A, 222 ("mastodon").
Soergel, W. 1914 A, 20.
Stefanescu, S. 1913 B, 735.
    1913 C, 883.
Steinmann, G. 1907 A, 483.
Stremme, H. 1911 A, 89.
Tims, H. W. M. 1903 A, 144.
Trouessart, E. L. 1892 A, 189 (Mastodon).
    1905 A, 600 (Mastodon).
Underhill, B. M. 1910 A, 83.
Upham, W. 1902 A, 149 ("mastodon").
    1903 C, 22679 ("mastodon").
Vacek, M. 1877 A, 1 (Mastodon); 45 (Zygolophodon).
    1877 B, 52.
Villada, M. M. 1903 A, 450 (Mastodon).
Wallace, A. R. 1876 A, I, 498; II, 227, 228.
Weber, M. 1904 A, 724.
Weber and Abel 1928 A, 414, 469 (Mastodon).
Williston, S. W. 1902 J, 196.
    1902 L, 918.
Woodward, A. S. 1898 D, 332.
Woodward, H. 1904 B, 158.
Wright, G. F. 1908 A, 34 ("mastodons").
    1911 B, 754 ("mastodons").
Zittel and Schlosser 1911 A, 537.
    1923 A, 629, 681, 682 (Mastodon, Mammuth).

Mammut americanum (Kerr).

Unless otherwise indicated the authors here cited used Mastodon for this genus.

Hay, O. P. 1902 A, 708 (Mammut).
Abbott, C. C. 1881 A, 482, 483 ("mastodon," "elephant?").
    1883 A, 101 ("mastodon").
Abel, O. 1914 A, 197, fig. 155.
    1922 C, 86, fig. 77 (Mastodon); 179, fig. 143 (Zygolophodon).
    1925 A, 317, figs. 243-255.
    1926 B, 81, 238, fig. 59.
Alden, W. C. 1924 A, 105.
Ameghino, F. 1889 A, 635, 637, 647.
Ami, H. M. 1898 A, 80 ("mastodon").
Anderson, N. A. 1905 A ("mastodon").
Andrews, C. W. 1903 B, 102, 104, figs. 4, 5 ("mastodon").
    1906 A, 107, fig. 42.
    1908 A, 406 ("mastodon").
    1922 B, 33, fig. 19.
Anonymous 1879 A, 263 (Mastodon giganteus).
    1904 A, 60 ("mastodon").
    1906 A, 199 ("mastodon").

Anonymous 1907 C, 91, pl.
1922 B, 282, fig. ("Cohoes mastodon").
1924 B, 410, fig. ("mastodon").
Archer, W. J. 1918 B, 13 ("mastodon").
Arnell, D. R. 1809 A, 313 ("mammoths").
Aughey, S. 1876 A, 254 ("mastodons").
Bagg, R. M. 1909 A, 49, pl. iv ("mastodon").
Baker, F. C. 1920 A, 463 (Mammut).
1920 B, 63.
Balch, E. S. 1917 A, 481 ("mastodon").
Ballard, F. A. 1880 A, 643, fig. ("mastodon").
Bancroft, H. H. 1875 A, 697, 699 ("mastodons").
Bannister, H. M. 1870 A, 113 ("mastodon").
Barbour, E. H. 1914 B, 181, pl. i (Mammut).
1914 C, 218, 220, fig. 4 (Mammut).
1915 B, 218, fig. 4 ("mastodon").
1916 B, 251, fig. 4 (Mastodon).
1924 A, 11 (Mastodon).
1925 C, 94 ("American mastodon").
1925 D, 111 (Mastodon).
Barton, B. S. 1805 C, 154 ("mammoth").
1806 A, 22 ("elephant").
1806 B, 157 ("mammoth"; species doubtful).
1810 A, 342, 343 (Elephas mastodontus).
1814 A, 28 (Elephas mastodontus).
Beasley, W. L. 1907 C, 103, 5 figs. ("mastodon").
Becker, G. F. 1891 A, 189.
Bell, R. 1898 B, 222 ("mastodon").
Bibbins, A. B. 1907 A, 297 ("mastodon").
1908 A, 650, pl. lxxii ("mastodon").
Billings, E. 1856 B, 379, pl. (Mastodon giganteus).
1869 A, 38 (Mastodon ohioticus).
Blainville, H. M. D. 1864 A, III, 245 ("le grand mastodonte"); 253 (Mastodon tetracaulodon); 255 (Mastodon jeffersonii, M. godmani); 256 (M. collinsonii, M. cuvieri); 260 (Tetracaulodon tapiroides, T. osagii, T. kochii, T. haysii, T. bucklandi); 261, 306, pl. xvii (Elephas ohioticus); 307 (Tracaulodon godetmani, koahiè, tapiroides).
Blake, W. P. 1857 A, 172, 257 ("mastodon").
1867 C, 291 ("mastodon").
1899 A, 636.
1908 A, 63 ("mastodon").
Blumenbach, J. F. 1803 A, 1 (Mammut ohioticum).
Bolton, H. C. 1888 A, 123 ("mastodon").
Borden, W. W. 1874 A, 176 ("mastodon").
Boule, M. 1923 A, 399, fig. 230.
Boule and Thevenin 1920 A, 21, 73, text-figs. 24, 28.
Bradley, F. H. 1870 A, 193, 229, 242, 266.
Branner, J. C. 1909 A, 7 ("mastodon").
Broadhead, G. C. 1874 A, 157 ("mastodon").
1881 A, 519.
1898 A, 376 ("mastodon").
Buckley, E. C. 1903 A, 297 ("mastodon").
Buckley, S. B. 1866 A, 44 ("Mastodon").
1874 A, 64 ("mastodon").
Cahn, A. R. 1922 A, 23 (Mastodon).
Call, R. E. 1889 A, 39 ("mastodon." This species?).
Calvin, S. 1897 A, 21.
1901 A, 413 ("mammoth or mastodon").
1909 A, 137 (Mammut).
Calvin, S. 1909 B, 352, pl. xxv, fig. 2 (Mammut).
1910 A, xii ("mastodon").
1911 A, 213, pls. xxi, xxii ("mastodon").
Camper, P. 1780 A, 226 ("animal incognitum").
Cannon, G. L. 1906 B, 196 ("mastodon").
Capellini, G. 1907 A, 145 (Mastodon ohioticus).
Case, T. S. 1879 A, 241 ("mastodon").
Chamberlin, R. T. 1916 A, 35 ("mastodon").
Chamberlin, T. C. 1919 A, 316 ("mastodon").
Clarke, J. M. 1887 A, 34 ("elephant").
1888 A, 388, pl. ("mastodon").
1903 A, 297 ("mastodon").
1903 B, 863 ("mastodon").
1903 C, 921-933 ("Mastodon americanus").
1908 A, 59 ("mastodon").
1908 B, 44-49.
1912 A, 500 ("mastodon").
1923 A, 127 ("mastodon").
1923 B, 127 ("mastodon").
1923 C, 127 ("mastodon").
Clinton, D. W. 1815 A, 57, 100, 108 (Elephas americanus).
Coleman, A. P. 1895 A, 641 ("mastodon").
1907 A, 1248 ("mastodon?").
1914 A, 448 ("mastodon").
Collett, J. 1872 A, 214 ("mastodon").
1876 A, 393 ("mastodon").
1881 A, 16 (Mastodon giganteus).
1883 A, 73 ("mastodon").
Collinson, P. 1768 A, 464 ("elephants").
1768 B, 468, pls. xxi, xxii ("elephants?").
Condon, T. 1902 A, 153, pl. xxviii, fig. 2 ("mastodon").
1910 A, 131, pl. xxviii, fig. 2 ("mastodon").
Conrad, T. A. 1832 A, 11 ("mastodon").
1835 A, 104 ("mastodon").
Cook, G. H. 1878 A, 15 ("mastodon." This species?).
Cook, H. J. 1928 B, 41 (Mastodon).
Cooper, J. G. 1875 A, 390.
Cooper, J. H. 1843 A, 33 (Mastodon giganteum).
Cooper, Smith and Dekay 1831 A, 370 ("mastodon").
Cooper, W. F. 1906 A, 354 ("mastodon").
Cope, E. D. 1880 V, 61.
1895 G, 599.
Cornbury, Lord 1848 A, 421 ("giant").
Couper, J. H. 1846, in Hodgson, W. B. 1846 A, 31 (Mastodon giganteus).
Cox, E. T. 1871 A, 103 (Mastodon ohioticus).
1875 A, 214 ("mastodon").
1875 B, 59 (Mastodon ohioticus).
Cramer, Z. 1806 A, 69 ("mammoth").
Culver, H. E. 1927 A, 541 ("mastodon").
Cummins, W. F. 1892 A, 149 ("mastodon").
1893 A, 182 ("mastodon").
Cuvier, G. 1798, Tabl. élém. d'hist. nat., 149 (Elephas americanus).
1799 A, 19, 21 (Elephas americanus).
1799 B, 90 ("mammoth des Anglais").
1803 A, 166 ("fossile de l'Ohio").
1825 A, I, 206-249, pls. i-vii ("mastodonte").
Cuvier and Geoffroy St. Hilaire 1796 A, 90 ("éléphan").
Dachnowski, A. 1912 A, 38, 39, 51, 60, 103, 113, 218.
Darrach, J. 1847 A, 74 ("mastodon").

Darrach, J. 1852 A, 172 ("mastodon").
Daubenton, L. J. M. 1762 A, 206 ("éléphan"); 222 ("hippopotame").
Dawson, J. W. 1894 C, 265 ("mastodon").
De Brahm, — 1786 A, 103, pl. ("fossil bones").
De Haas, W. 1886 A, 317 ("mastodon").
Deeley, R. M. 1913 A, 14, tab. ("mastodon").
Depéret, C. 1907 B ("Mastodon ohioticus").
Desmarest, A. G. 1822 A, 384 (Mastodon giganteus).
Desor, E. 1855 A, 218 (Mastodon giganteum).
Diener, C. 1912 A, 216.
Dietrich, W. O. 1912 A, 64, 90.
1916 A, 40, 44, 56, 59, 64, 65, 69, 70, 76, fig. 5.
1919 A, 58 (Mastodon).
1921 A, 598 (Mastodon).
Digby, B. 1926 A, 34.
Diller, J. S. 1896 A, 483.
Dollo, L. 1889 I, 685.
Drayton, J. 1802 A, 39, pl. i, fig. 4 ("carnivorous animal").
Dreverman, F. 1911 B, 13, pl.
Dryer, C. R. 1889 A, 129 ("mastodon").
Dudley, J. 1847 A, 77 ("man").
Eager, S. W. 1847 A, 71, 77 (Mastodon giganteum).
Edwards, J. J. 1902 A, 247 (This species?).
Eichwald, E. 1835 A, 734 (Mastodon ohioticus).
Elrod and Benedict 1892 A, 240.
Emerson, B. K. 1917 A, 149 (Mastodon giganteus).
Emmons, E. 1852 A, 56, 96, 100, 106 ("mastodon"); 99 (Mastodon giganteum).
Falconer, H. 1845 A, 368 (Mastodon giganteus).
1863 A, 46 (Mastodon ohioticus).
Falconer and Cautley 1846 A, 16, pl. iii, fig. 9; pl. xl, fig. 16; pl. xlii, fig. 4; pl. xliv, fig. 4 (Mastodon ohioticus).
1847 A, pls. iii, xxxv.
Falconer and Murchison 1867 A, 1, 5, 46 (Mastodon ohioticus).
Featherstonhaugh, G. W. 1831 B, 140 ("mastodon").
Fischer de Waldheim, G. 1832 A, 182 (Tetracaulodon mastodontoideum).
Fischer, J. B. 1829 A, 407 (Mastodon giganteum).
Foster, J. W. 1857 A, 361 (Mastodon giganteus).
1869 A, 236, 254 (Mastodon giganteus).
1873 A, 59, 71 ("mastodon"); 63, 84, fig. 4 (Mastodon giganteus).
Fowke, G. 1902 A, 107 ("mastodon").
Frech, F. 1906 A, 474, 497 ("mastodon").
1907 A, 310 ("mastodon").
Freudenberg, W. 1922 A, 6, 33 (Mastodon ohioticus, M. americanum).
Frick, C. 1926 B, 127, 138, 139, 141, 142, fig. C (Mastodon americanus); 130 (M. ohioticus, M. giganteus).
1926 C, 440, fig. ("Mastodon").
Fuller and Clapp 1912 A, 27 ("mastodon").
Fulton, A. R. 1883 A, 102 (Elephas americanus).
Gaudry, A. 1875 D, 1282 ("mastodon").
1891 B, 4, 6, pl. ii, fig. 7.
1891 C, 107, fig. 30 (Mastodon).
1893 A, 23.
Gervais, P. 1852 A, 39 (Mastodon giganteus).
Gervais, P. 1859 A, 68 (Mastodon giganteus); 365 (Mastodon ohioticum).
Gibbes, R. W. 1850 C, 67 ("mastodon").
Gidley, J. W. 1912 C, 19 ("mastodon").
1916 A, 28 ("mastodon").
1920 B, 282 ("mastodon").
1925 A, x ("mastodon").
1926 A, 87-89.
1926 D, 240 ("mastodons").
1926 H, 24 ("Florida mastodon").
1927 E, 274.
Gidley and Loomis 1926 A, 262 ("mastodon").
Giebel, C. G. 1855 C, 140 (Mastodon giganteus).
1883 A, 112, pls. xxxv, xli (Mastodon giganteus).
Gilbert, G. K. 1871 B, 129.
1873 A, 556 (Mastodon giganteus).
1890 A, 303 ("Elephas or mastodon").
Gilbert, J. Z. 1910 B, 25, 45, figs. 13, 14 ("mastodon").
Gilmore, C. W. 1906 A, 610, pl. xxxv ("mastodon").
1908 A, 30, pl. viii.
Goddard, P. E. 1926 A, 258 ("mastodon").
1927 A, 68 ("mastodon").
Godman, J. D. 1860 A, II, 52-81, 5 pls. (Mastodon giganteum).
Gordon, C. H. 1913 A, 31, 64 ("mastodon").
Gordon, R. 1902 A, 595 ("mastodon").
1902 B, 1033 ("mastodon").
Graham, J. G. 1801 A, 213 ("fossil bones").
Grant, E. 1842 A (Tetracaulodon bucklandi).
Green, C. 1854 A, 16 ("mastodon").
Greene, G. K. 1881 A, 428 (Mastodon giganteus).
Gregory, W. K. 1903 A, 388 ("mastodon").
1907 C, 91, pl. ("mastodon").
1920 A, 183, fig. 145.
Groghan, G. 1831 A, 261 ("elephants").
Guernsey, J. A. 1831 A, 358, fig. ("mastodon").
Guettard, — 1752 A, 349, pls. xi, xii ("quel animal?").
Hall, J. 1861 A, 15 ("mastodon").
1871 B, 7 ("mastodon").
1888 A, 32 ("mastodon").
Harlan, R. 1828 A, 187 ("mastodon").
1831 C, 62 ("mastodon").
1842 B, 69, 143 ("mastodon").
Harris, G. D. 1899 A, 18, 20, 38, 115.
Hart, M. C. 1884 A, 47 ("elephant or mastodon." This species?).
Hartnagel and Bishop 1921 A, 1-66, pls. i-xii (mastodons).
Haug, E. 1911 A, 1873, 1887.
Hay, O. P. 1910 D ("mastodon").
1912 B, 5, fig. 1.
1912 D, 657, pls. xii-xvii; text-figs. 52-62.
1914 A, 26, 34, 38, 330, pl. xliii; pl. xliv, fig. 3; pls. xlv, xlvi, xlvii; pl. xlix, figs. 1, 3; pl. li; pl. lii, fig. 1; text-figs. 104-119, 121, 123a, 124-127, 129, 131, 132.
1917 E, 45.
1918 B, 10.
1918 C, 346.
1919 B, 378.
1920 B, 109, 128, 135, pl. x, fig. 8.
1923 A, 489.
1924 B, 263 ("mastodon").

Hay, O. P. 1924 D, 380 (Mammut, Mastodon).
1925 C, 22, 24.
1925 E, 382 (Mastodon).
1926 A, 39.
1926 C, 1.
1926 D, 360.
1926 E, 390 ("mastodon").
1927 C, 281 ("mastodon").
1927 D, 302, 308.
1928 C, 425, 428, 429.
Hayden, F. V. 1871 A, 99 (Mastodon).
1872 A, 34 (Mastodon giganteus).
Hayes, S. 1895 B, 37 ("mastodon").
Hayes and Kennedy 1903 A, 20 ("Mammut").
Haymond, R. 1869 A, 199 (Mastodon maximus).
Haynes, H. W. 1889 A, 348, 388 ("mastodons").
Heilprin, A. 1888 A, 414 ("mastodon").
Henshaw, H. W. 1883 A, 153 ("mastodon").
Hermann, R. 1907 B, 285, fig. 2.
1908 A, 307, pl. iv; text-figs. 3, 4.
1910 A, 99, fig. 5.
Higley, W. K. 1891 A, xv ("mastodon").
Hildreth, S. P. 1834 A, 356 ("mastodon").
1837 A, 50 ("mastodons").
Hilgard, E. W. 1860 A, 196 (Mastodon giganteus).
1869 A, 82 ("mastodon").
1872 A, 14 ("mastodon").
Hill, R. T. 1901 A, 360.
Hodge, E. T. 1925 A, x ("mastodon").
Hodge, J. T. 1878 A, 593.
Hodgson, W. B. 1846 A, 12 (Mastodon giganteus).
Holland, W. J. 1899 A, 233, figs. 1, 3.
1905 C, 464, figs. 1-5 ("mastodon").
1908 A, 23 ("mastodon").
1912 B, 750 ("mastodon").
Hollick, A. 1901 A, 67 ("mastodon").
Holmes, F. S. 1859 A, 184 ("mastodon").
1860 A, iii, vi ("mastodon").
Holmes, W. H. 1901 A, 423 ("mastodon." This species?).
1903 A, 242, pls. 6, 7 ("mastodon").
Honeyman, D. 1890 A, 344 (Mastodon ohioticus).
Hopkins, F. V. 1871 A, 6 ("mastodon." This genus?).
1872 A, 188 ("mastodon." This genus?).
Hovey, E. O. 1908 A, 147, pl. v ("mastodon").
Howorth, H. H. 1905 A, 94, 99 ("mastodon").
Hoy, P. R. 1871 A, 147 (Missourium tetracaulodon).
Hrdlička, A. 1907 A, 17, 18 (Mastodon ohioticus).
1918 A, 27.
1926 A, 7, 9 ("mastodon").
Hubbard, B. 1841 A, 559 ("mastodon").
Hunter, W. 1769 A, pl. xv, figs. 1, 3, 5 ("pseud-elephant," "animal incognitum").
Hussey, J. 1878 A, 477 ("mastodon").
Ingalls, A. G. 1926 A, 289, fig. ("mastodon").
Jaques, H. E. 1922 A, 65, fig. 5*a*.
Jefferson, T. 1787 A, 68 ("mammoth").
Joor, J. F. 1895 A, 397 ("mastodon." This species?).
Kaup, J. J. 1843 A, 173 (Tetracaulodon mastodontoideus).
Kermode, F. 1916 A, 21, pl. xi, fig. 2.
Kindle, E. M. 1924 A, 184 ("Mammut").
Knight, C. R. 1923 A, 1, fig. (Warren mastodons).
Knowlton, F. H. 1911 D, 63 ("mastodon").
Koch, A. C. 1845 A, 13 (Mastodon cuvieri); 20 (M. rugatum); 13, 25, pl. iv, figs. 1-3 (M. giganteum); 25, 29, 32, pl. iv, figs. 4-6 (Tetracaulodon kochii); 25, 27, 43, pl. vi (Missurium theristocaulodon); 34 (Tetracaulodon haysii); 35 (T. tapiroides); 36 (T. bucklandi).
1845 D, 23 ("Missurium").
Kunz, G. F. 1916 A, 521 (Mastodon).
Lacépède and Cuvier 1808 A, 330 ("mastodonte").
Lambe, L. M. 1904 C, 39, 50 (Mastodon).
1912 A, 14.
1914 F, 299.
1914 H, 403 (Mastodon).
1916 C, 21.
Lane, A. C. 1902 A, 252 ("mastodon").
1903 A, 297 ("mastodon").
Lankester, E. R. 1905 A, 100, 105, figs. 68, 72, 78, 86.
Lansing, G. Y. 1861 A, 7, 15 ("mastodon").
Lartet, E. 1859 A, 484 (Mastodon ohioticus).
Lawson, A. 1914 A, 15.
Lay, J. H. 1876 A, 14 ("mastodon").
Lee, C. A. 1871 A, 108 ("mastodon").
Lee, Stone, Gale 1915 A, 9.
Leidy, J. 1859 J, 181 ("mastodon").
1866 D, 459 ("elephas").
Leighton, M. M. 1921 A, 513.
Leverett, F. 1899 A, 166 ("mastodon").
Lewis, H. C. 1881 A, 549 ("mastodon").
1883 A, 305 ("mastodon").
1883 B, 366, 374 ("mastodon").
Lichtenstein, R. 1840 A, 105 (Mastodon giganteum).
Lindgren, W. 1901 A, 583, 769.
1911 A, 51, 212.
Lindgren and Drake 1904 A.
1904 B, 2 (This species?).
Lindmuth, A. C. 1878 A, 43 ("mastodon").
Lloyd, J. W. 1904 A, 43 ("mastodon").
Lockwood, S. 1882 A, 294 ("mastodon").
1883 B, 341.
Lönnberg, E. 1907 B, 63.
Loewe, S. 1914 A, 791, pl. xii ("mastodon").
Loomis, F. B. 1924 C, 506 (Mastodon).
1925 D, 436 ("mastodon").
Lucas, F. A. 1900 H, 99.
1901 F, 492, pl. viii.
1901 J, 198, figs. 38-40 ("mastodon").
1902 A, 555.
1902 B, 264, fig.
1902 G, 669 ("mastodons").
1904 F, 2.
1906 B, 157, 159, 160, pls. xxxiv-xxxvi.
1906 C, 955 ("mastodon").
1908 A, 443 ("mastodon").
Lull, R. S. 1908 A, 192, 194, figs. 19-21.
1909 A, 652, figs. 3, 7, 17-19.
1914 B, 321.
1914 C, 143.
1914 E, 63, pl. i, fig. 2; pl. ii, fig. 6.
1917 B, 300, 598, 674, figs. 54, 205, 206.
1918 B, 200 ("mastodon").
Lydekker, R. 1896 B, 57.
Lyell, C. 1843 D, 22 ("mastodon").

Lyell, C. 1845 B, I, 23, 25, 67, 163, 175, 201; II, 65, 69 ("mastodon").
1847 C, lxxxi ("mastodon").
1855 A, I, 348; II, 195, 197, 261, 362, 365 ("mastodon").
M'Caslin, D. S. 1883 A, 169 ("mastodon").
McCornack, E. C. 1914 A, 14 ("mastodon").
1920 A, 23.
McCourt, W. E. 1917 A, 69 (Mastodon giganteus).
MacCurdy, G. G. 1916 A, 1.
1917 A, 261.
MacCurdy, H. M. 1920 A, 119.
McGee, W J 1891 B, 399 ("mastodon").
Mackensen, B. 1905 A, 3, pls. i-iv ("mastodon." This species?).
Macloskie, G. 1884 A, 225, fig. 116 (Mastodon).
Madison, J. 1805 A, 58 ("mammoth." This species?).
1812 A, 388 ("elephant").
Manigault, G. E. 1887 A, 130 ("mastodon").
Mantell, G. A. 1839 A, 146, 149, fig. 25 ("mastodon").
1844 A, 832 (Mastodon giganteus).
1850 A, 167, pl. lxxiv.
Mason, S. C. 1883 A, 13 ("mastodon").
Mather, C. 1714 A, 62 ("giants").
Mather, W. W. 1843 A, 441 ("mastodon").
1843 B, 232, 636 ("mastodon").
Matson and Clapp 1909 A, 136 (Mastodon sp.).
Matthew, W. D. 1915 B, 13, pl. i; text-figs. 5, 6.
1915 K, 410 ("mastodon").
1916 G, 48, fig. ("Mastodon").
1925 A, 97 (This species?).
Meek, F. B. 1855 A, 215 (Mastodon gigantus).
Mercer, H. C. 1894 C ("mastodon").
1897 A, 444 ("mastodon").
Merriam, J. C. 1914 D, 15.
Merriam and Stock 1925 A, 10, 11.
Meyer, H. 1867 C, 786, 789 (Mastodon ohioticus).
Meyers, — 1868 A, 56 ("mastodon").
Miller, H. 1857 A, 123 ("mastodon").
Miller, L. H. 1912 A, 71 (Mastodon); 78 (Mastodon sp.).
Miller, S. 1801 A, 211 ("large bones").
Miller and Stephenson 1912 A, 46, 50, 55, 57 ("mastodon").
Mitchell, E. 1828 A, 347 ("mastodon." This species?).
Mitchill, S. L. 1817 A, 392.
1818 A, pl. vi, figs. 1-4; pl. viii, figs. 1-3 ("Mastodon").
1821 A, 291, figs. 14-17.
1826 A, 10, 11 ("mastodon").
Mitchill and Townsend 1909 A, v ("mastodon").
Moodie, R. L. 1923 B, 127, 266, pl. xxv (Mastodon).
Moore, J. 1893 A, 73 ("mastodon").
Mudge, B. F. 1866 B, 14 ("mastodon").
Murchison, C. 1868 A, I, 55 (Mastodon ohioticus, M. giganteus, M. maximum, Mammut ohioticum); 56 (Elephas americanus); 63 (Missourium theristocaulodon).
Murchison, R. I. 1843 A, 130 (Mastodon giganteus).
1843 B, 132, 146 (Mastodon giganteus).
Murdock, J. 1885 A, 99 (Elephas? sp.).
Newberry, J. S. 1870 D, 32 ("mastodon").
1873 E, 183 ("mastodon").
1873 F, 87 ("mastodon").
Newcombe, C. F. 1915 A, 32.
New York World 1879 A, 263 ("mastodon").
Nordenskiöld, E. 1903 A, 9, 13 (Mastodon giganteus).
Obalski, T. 1904 A, 216 ("mastodonte").
Orton, E. 1870 A, 56 ("mastodon").
Osborn, H. F. 1904 F, 33, 44.
1905 H, 226.
1905 I, 110.
1909 D, 86.
1910 B, 439, 622, figs. 189, 204, 209, 210.
1912 I, 782, figs. 1-3 ("mastodon").
1914 D, 408, fig. 1.
1915 C, 223.
1918 C, table (Mastodon).
1921 A, 12.
1923 A, 3, figs.
1925 A, 4, 23, fig. p. 13 (Mastodon).
1925 B, 24 (Mastodon).
1925 D, 531, 535, fig. (Mastodon).
Osgood, W. H. 1905 B, 254.
Owen, R. (of America) 1862 A, 197 ("mastodon").
Palacký, J. 1903 B, 318 (M. ohioticus).
Pallas, P. S. 1780 A, 213, pl. viii, fig. 3 ("ignotum animal." Species of Gomphotherium?).
Palmer, T. S. 1904 A, 397 (Mammut); 401 (Mastodon).
Pander and Alton 1821 B, 8, pls. iii, iv ("Ohio-elephant").
Pavlow, M. 1901 A, 11, 12, pl. i, fig. 3 (Mastodon ohioticus).
Peale, R. 1831 A, 211 ("mastodon").
Peterson, O. A. 1917 A, 474.
1926 A, 274, pls. xxii, xxiii (Mastodon).
1927 A, 255, figs. 1, 2 (Mastodon).
1928 A, 111 (Mastodon).
Phinney, A. J. 1882 A, 131 ("mastodon").
1883 A, 181 ("mastodon").
1884 A, 143 ("mastodon").
Piers, H. 1912 A, 163.
Pleas, E. 1891 A, 131.
Plummer, J. T. 1843 A, 302 ("mastodon").
Pohlig, H. 1889 A, 43, fig. 2 (Mastodon giganteus).
Pompeckj, J. F. 1905 A, 48 (Mastodon giganteus).
Pownall, J. 1803 A, 332 ("mammoth").
Putnam, C. E. 1886 A ("mastodon").
1890 A, 468.
Putnam, F. W. 1886 A, 408 ("mastodon or mammoth").
Ranking, J. 1828 A, 355 ("mastodon").
Raspé, R. E. 1769 A, 126 ("elephant").
Rath, G. 1886 A, 105 (Mastodon).
Rhoads, S. N. 1903 A, 234.
Richardson, J. 1854 B, 82 (Mastodon giganteus).
Ridgway, J. L. 1926 A, 16, 2 figs. ("mastodon").
Rio, A. 1918 A, 367 ("mamut americano").
Rogers, H. D. 1844 A, 258, 262 (Mastodon giganteum).
1858 A, 480 ("mastodon").
Ruschenberger and Tryon 1879 A, 14 (Mastodon giganteum).

- Russell, J. W. 1924 A, 235 ("mastodon").
- Russell and Leverett 1908 A, 9.
- Scharff, R. F. 1911 A, 80 ("mastodon").
- Schlesinger, G. 1912 A (Mastodon, Mammut).
  - 1921 A, 32, 41, 61, 163, 175, 230.
- Schmidt, E. 1872 A, 234, 245, 254 (Mastodon giganteum).
- Schmidt, O. 1886 A, 233 (Mastodon giganteum).
- Schuchert, C. 1914 A, 321, fig. 3 (Mammut).
  - 1915 A, 956 (Mammut).
  - 1926 A, 14 ("mastodon").
- Scott, W. B. 1913 A, 685, figs. 113, 226.
- Sellards, E. H. 1915 B, 143 (Mammut).
  - 1915 C, 8 (Mammut).
  - 1915 D, 76, 112, fig. 45 (Mammut).
  - 1916 B, 96, 104 (Mammut).
  - 1916 C, 132, 158, pl. xxxi (Mammut).
  - 1916 D, 617 (Mammut).
  - 1916 E, 15, 16 (Mammut).
  - 1916 F, 7, 9.
  - 1917 A, 250 ("mastodon").
  - 1917 C, 76 ("mastodon").
- Serres, M. 1852 A, 120 (Mastodon giganteus).
- Shaler, N. S. 1877 A, 197 (Mastodon ohioticus).
- Shaw, J. 1873 A, 110 ("mastodon").
- Sheldon, P. 1915 A, 98.
- Shepard, E. M. 1898 A, 143 ("mastodon").
- Shimek, B. 1902 A, 285 (Mastodon giganteus).
  - 1904 A, 305 (Mastodon giganteus).
  - 1910 A, 129, 132, 134, 135.
  - 1910 B, 324, pl. xxvi.
- Shumard, B. F. 1855 A, 175 (Mastodon giganteus).
  - 1873 A, 291, 304 ("mastodon").
- Silliman, B. Sr. 1831 A, 371 ("Mastodon").
- Simpson, G. G. 1928 H, 3 (Mastodon).
- Sinclair, W. J. 1903 A, 711 ("mastodon").
  - 1904 A, 18, 21 ("mastodon").
  - 1908 A, 112 ("mastodon").
- Southall, J. C. 1875 A, 596 ("mastodon").
  - 1878 A, 422 ("mastodon").
- Sperry, L. B. 1884 A, 670 ("mastodon").
- Stalker, M. 1899 A, 216 ("mammoth." This species?).
- Staufer, C. 1924 A, 41 (Mastodon. This genus?).
  - 1926 A, 1 (Mastodon).
- Stefano, G. 1915 A, 209 (Mastodon).
- Stephenson, L. W. 1912 B, 268 (Mastodon giganteum).
- Sterling, E. 1886 A, 309 ("mastodon").
- Stevenson, J. I. 1876 A, 22 ("mastodon").
- Stock, C. 1925 A, 30, 113 (This species?).
  - 1928 D, 46, pl. ii, figs. *b*, *c*; pl. iii, fig. *a*; pl. iv, figs. *d*, *f*.
- Swallow, G. C. 1858 A, 35 (Mastodon giganteus).
- Swarth, H. S. 1915 A, 25, figs. 13, 14 (Mastodon).
- Tarr, R. S. 1905 A, 27 (Full ed. p. 201).
- Taylor, J. L. B. 1921 A, 591, figs. ("mastodon." This genus?).
- Terra, P. 1911 A, 336, fig. 162 (Mastodon giganteum).
- Tilesius, W. G. 1815 A, 474 (Elephas mastodonteus vel americanus).
- Tilton, J. L. 1911 A, 26 ("mastodon").
- Todd, J. E. 1896 A, 129 ("mastodon").
- Townsend, P. S. 1908 A, 147, pl. v (Elephas mastodonta).
- Troxell, E. L. 1923 A, 89.
- Tuomey, M. 1848 A, 177, 178 ("Mastodon").
- Turner, H. W. 1895 A, 375 ("mastodon").
- Tyrrell, J. B. 1892 A, 129 (Mastodon giganteus).
- Udden, J. A. 1899 A, 352 ("mastodon or elephant"); 356 ("mastodon").
  - 1905 A, 47-57.
- Vacek, M. 1877 A, 6, 34 (Mastodon ohioticus).
- Van Rensselaer, J. 1827 B, 80.
- Veatch, A. C. 1899 A, 245.
  - 1902 A, 68, 74, 87 ("mastodon." This genus?); 79 ("extinct animal." This genus?).
  - 1906 A, 51 ("mastodon").
- Walker, B. 1898 A, 121 ("mastodon").
- Ward, H. A. 1866 A, 38, figs. (Mastodon giganteus).
- Warder, R. B. 1872 A, 402 ("mastodon").
- Warren, J. C. 1848 A, 144 ("mastodon").
  - 1849 A, 111 ("mastodon").
  - 1853 A, 377 (Mastodon giganteus).
- Weber and Abel 1928 A, 453, fig. 284 (Mastodon).
- Weidman, S. 1907 A, 430 ("mastodon").
- West, H. H. 1877 B, 336 ("mastodon").
- White, I. C. 1883 A, 20, 123 ("mastodon").
  - 1911 A, 378 (mastodon).
- Whitney, J. D. 1862 A, 129-133 ("mastodon").
  - 1864 A, 264 ("mastodon").
  - 1865 A, 102, 135, 242, 252, 276 ("mastodon").
  - 1866 A, 162 ("mastodon").
  - 1879 B, 263, 275, 281 ("mastodon").
- Whittlesey, C. 1866 A, 15, 16 ("mastodon").
- Wilber, C. D. 1861 A, 59, figs. 1-3 (Mastodon giganteus).
- Wilder, F. A. 1900 A, 117 ("elephant").
- Williams, G. H. 1894 A, 26.
- Williams, H. S. 1897 A, 676, fig. ("mastodon").
- Williamson, C. W. 1905 A, 334-338 ("mastodon").
- Wilson, T. 1892 A, 629.
  - 1901 A, 299 (Mastodon mexicanus); 322 (M. americanus); 333, fig. 29 (M. ohioticus).
- Winchell, A. 1861 A, 132 (Mastodon giganteus).
  - 1870 A, 504 ("mastodon").
- Winchell, N. H. 1874 A, 247 ("mastodon").
  - 1874 B, 392 ("mastodon").
  - 1878 A, 61 ("mastodon").
  - 1888 A, 397 ("mastodon").
  - 1905 A, 259.
  - 1907 A, 163 ("mastodon").
  - 1910 A, 418 ("mastodon").
  - 1917 A, 134 ("mastodon").
- Woodward, A. S. 1923 C, 63, fig. 54.
- Worthen, A. H. 1866 A, 38, 39, 315 ("mastodon").
  - 1873 A, 308 ("mastodon").
  - 1890 A, 8 ("mastodon").
- Wright, F. B. 1903 A, 246 ("mastodon").
- Wright, G. F. 1903 A, 297 ("mastodon").
  - 1905 A, 18 ("mastodon").
  - 1908 B, 187 ("mastodon").
  - 1911 A, 282 ("mastodon").
  - 1911 C, 42 ("mastodon").
- Wyman, J. 1875 A, 31, 81 ("mastodon").
- Wyman, L. E. 1922 A, 17, figs. 3, 10.
  - 1927 A, 86 ("mastodon").
- Yates, L. G. 1915 A, 67 (This species?).

Zittel and Schlosser 1923 A, 631 (Mastodon).
Pleistocene (Early to Late). The whole of North America.

Mammut americanum plicatum (Osborn).

Osborn, H. F. 1926 B, 1, fig. 1 (Mastodon).
Pleistocene (Wisconsin); Illinois.

Mammut francisi Hay.

Hay, O. P. 1926 A, 35, pl. i, fig. 3; pl. ii.
Pleistocene (Aftonian); Texas.

Mammut matthewi (Osborn).

Osborn, H. F. 1921 B, 2, 4, fig. 1a, a^2, a^3 (Mastodon); not fig. $1a^1$.
Matthew, W. D. 1923 A, 12 (Miomastodon).
Osborn, H. F. 1921 C, 108 (Mastodon).
1922 F, 4 (Miomastodon).
1926 B, 1 (Pliomastodon).
Lower Pliocene (Snake Creek); Nebraska.

Mammut merriami (Osborn).

Osborn, H. F. 1921 B, 4, 6, fig. 2 (Mastodon).
1921 C, 108 (Mastodon).
1922 F, 4 (Miomastodon).
Pliocene (Thousand Creek); Nevada.

Mammut oregonense Hay.

Hay, O. P. 1926 A, 39, pl. i, figs. 1, 2.
1927 D, 13, 19, 245.
Pleistocene (Early); Oregon.

Mammut progenium Hay.

Hay, O. P. 1914 A, 26, 368, pl. xliv, figs. 1, 2; pl. xlviii, fig. 1; pl. lii, figs. 2, 3.
Baker, F. C. 1920 A, 226, 243.
Blatchley, W. S. 1898 A, 90 (Mastodon americanus).
Clarke, J. M. 1903 C, 936 (Mastodon americanus).
Collett, J. 1881 A, 386 ("mastodon").
Hartnagel and Bishop 1921 A, 49, pl. vii ("mastodon").
Hay, O. P. 1923 A, 489.
1924 D, 378.
1928 C, 425.
Hayes, S. 1895 B, 40, pl. ("mastodon").
Leidy, J. 1871 F, 113 (Mastodon americanus).
Loomis, F. B. 1917 A, 210.
1918 A, 438, figs. 1-4 (Mastodon americanus).
Merriam, J. C. 1917 A, 439, 441.
Osborn, H. F. 1921 A, 12 (Mastodon).
Pohlig, H. 1912 A, 187, fig. 12 (Tetracaulodon ohioticum).
Sellards, E. H. 1916 B, 95, pl. x.
Pleistocene (Aftonian); Iowa, North Carolina, South Carolina, Kansas, Texas: (Sangamon); Ohio: (Late Wisconsin); Illinois: Pliocene? (Bone Valley); Florida.

Mammut sp. indet.

Buckley, S. B. 1866 A, 44 ("Mastodon").
Cooke, C. W. 1926 A, 445 ("Mastodon"). Pleistocene; Florida.
Hay, O. P. 1927 D, 223, 235 (Mammut); 308 (Mastodon. This genus?). Pleistocene; Arizona, California, Idaho, Oregon, Washington.
Merriam, J. C. 1909 A, 293. Pleistocene (Los Angeles); California.
Merriam and Sinclair 1907 A, 196 (Mastodon). Pliocene (Mascall?); Oregon.
Merriam and Stock 1921 A, 567 (Mastodon). Pleistocene (Early); California.
Sinclair, W. J. 1904 B, 11 (This genus?). Pleistocene; Nevada.
1908 A, 112 ("mastodon").
1915 A, 77, 78, 84, fig. 9 (Mastodon). Pliocene; Nebraska.
Stock, C. 1925 A, 113. Pleistocene (Cave); California.

ANANCUS Lartet. Type *A. macroplus* Lartet = *Mastodon arvernensis* Croizet and Jobert.

Lartet, E. 1859 A, 493 (As syn. of Mastodon).
Hay, O. P. 1902 A, 711 (Mammut, part).
Aymard, A. 1854, Ann. Soc. Agric. Sci. le Puy, 507.
Gidley, J. W. 1926 A, 84.
Hay, O. P. 1923 A, 479.
1923 B, 112 (Anancus); 112 (Dibelodon).
1925 B, 4.
1925 D, 245 ("mastodon").
1925 E, 382.
Matthew, W. D. 1918 A, 200 (Tetralophodon).
1921 B, 189 (Mastodon arvernensis).
Newton, E. T. 1891 A, 43 (Mastodon arvernensis).
Osborn, H. F. 1918 C, table.
1922 F, 4 (Miomastodon; type *Mastodon merriami* Osborn).
1923 A, 17 (Cuvieronius; type *Mastodon humboldtii*).
1926 B, 1 (Pliomastodon; type *Mastodon matthewi* Osborn); 15 (Cordillerion; type *Mastodon andium*).
Schlesinger, G. 1921 A, 2, 125 (Dibunodon, as subgenus).
Stefanescu, S. 1919 E, 1332 (Mastodon).
1920 A, 811 (Mastodon arvernensis).

Anancus bensonensis Gidley.

Gidley, J. W. 1926 A, 85, pl. xxxii.
1922 B, 120 (Gomphotherium n. sp.?).
Hay, O. P. 1927 D, 10, 136.
Lower Pleistocene; Arizona.

Anancus brazosius Hay.

Hay, O. P. 1923 B, 112, pl. viii, figs. 1, 2.
Frick, C. 1926 B, 167 (Anancus braziosus).
Hay, O. P. 1917 B, 22, pl. iii, fig. 2 (Gomphotherium elegans, part).
1917 G, 221, pl. xxvi, fig. 3 (Gomphotherium elegans, part).
1921 B, 403 ("Gomphotherium").
1924 D, 373.
1925 B, 1, pls. i, ii; pl. iii, fig. 1.

Hay, O. P. 1926 C, 13.
1927 D, 297.
Pleistocene (Aftonian); Texas.

Anancus deflocatus Hay.

Hay, O. P. 1926 C, 14, pl. vii; pl. viii, fig. 1.
Pleistocene (Early); Texas.

Anancus edensis (Frick).

Frick, C. 1921 A, 405, pl. 1; text-figs. 160-165 [Tetrabelodon (Trilophodon) shepardi edensis].
1926 B, 127, 141, 152, 169, 171, 174, figs. 1*c*, 2-4*b*, 8, 9, 18, 21*a*-22*d*, 25 [Rhynchotherium (Dibelodon)].
Gidley, J. W. 1926 A, 85, 86 (Tetralophodon shepardi andium).
Hay, O. P. 1923 B, 110 (Gomphotherium).
Osborn, H. F. 1922 F, 2, fig. 2 (Dibelodon edensis).
1926 B, 15 (Cordillerion).
Stock, C. 1925 A, 21 (Trilophodon shepardi edensis).
Pliocene (Eden); California.

Anancus felicis (Freudenberg).

Freudenberg, W. 1922 A, 4, 20, pl. ii; pl. iii, fig. 2; pl. v, fig. 2 [Mastodon (Dibelodon) oligobunus felicis].
1921 A, 139 [Mastodon (Dibelodon) oligobunis felicis].
Pleistocene; Mexico.

Anancus gratus (Hay).

Hay, O. P. 1917 B, 18, pl. iii, figs. 3, 4; pl. iv (Gomphotherium).
Cahn, A. R. 1922 A, 23 (Gomphotherium).
Hay, O. P. 1924 D, 373.
1926 C, 12 (Part to A. orarius).
Osborn, H. F. 1926 B, 15 (Cordillerion).
Pleistocene (Early); Texas.

Anancus? hicksi (Cook).

Cook, H. J. 1922 A, 5, pls. i-iv; pl. vi, fig. 4 (Trilophodon).
1928 B, 39 (Trilophodon).
Upper Miocene?; Colorado.

Anancus humboldtii (Fischer de Waldheim).

Fischer de Waldheim, G. 1814 A, 341 (Mastotherium).
Hay, O. P. 1902 A, 710 (Mammut humboldii).
Abel, O. 1914 A, 202 (Tetrabelodon humboldti).
Blainville, H. M. D. 1864 A, iii, 249, 285, pl. xii.
Blake, C. C. 1861 A, 470 (Mastodon).
Boule and Thevenin 1920 A, 43, 63, 68, text-figs. 3, 23, 32 (Mastodon humboldti).
Burmeister, H. 1879 B, 522 (Mastodon).
Capellini, G. 1907 A, 144 (Mastodon humboldti).
Cuvier, G. 1824 Ossem. foss., ed. 2, v, pt. 2, 527 (Mastodon humboldii).
1825 A, i, 266-268, pl. ii, fig. 1 (Mastodon de Humboldt); v, pt. 2, 527 (M. humboldii).
Desmarest, A. G. 1822 A, 386 (Mastodon).
Diener, C. 1912 A, 224 (Mastodon humboldti).
Dumble, E. T. 1894 A, 559 (Dibelodon).
Eaton, G. F. 1905 A, 330 (Mastodon).
Falconer, H. 1863 A, 99 (Mastodon).
Fischer, J. B. 1829 A, 408 (Mastodon).
Freudenberg, W. 1922 A, 8, 16 (Mastodon humboldti).
Gaudry, A. 1891 B, 3 (Mastodon).
Gervais, P. 1855 A, 17, pl. v, figs. 9, 10.
Hay, O. P. 1917 B, 20 (Gomphotherium humboldii).
1917 G, 221 (Gomphotherium humboldii).
1923 B, 112 (Anancus).
1924 D, 17 (Mastodon).
1925 B, 2, 4, 5 (Mastodon, Anancus).
1925 C, 25 (Mastodon).
1925 E, 382.
Hays, I. 1834 A, 333, pl. ii, fig. 5 (Mastodon).
Ingalls, A. G. 1926 A, 290, fig. (Cuvieronius).
Kaup, J. J. 1843 A, 169 (Mastodon).
Koch, A. C. 1845 A, 16 (Mastodon).
Lull, R. S. 1908 A, 191 (Dibelodon).
1909 A, 670 (Dibelodon).
Matthew, W. D. 1909 C, 120 (Dibelodon?).
Merriam, J. C. 1917 A, 435 (Dibelodon).
Meyer, H. 1867 C, 789 (Trilophodon).
Murchison, C. 1868 A, ii, 8 (Mastodon).
Nordenskiöld, E. 1903 A, 6, 14, 21, pls. v, vi (Mastodon humboldti).
Osborn, H. F. 1903 E, 249 (M.).
1905 E, 931 (M.).
1918 C, table (Tetralophodon).
1921 A, 10 (M.).
1923 E, 1 (Cuvieronius).
1925 A, 17 (Cuvieronius).
1925 B, 27, fig. 3 (Cuvieronius).
1926 B, 15 (Cuvieronius).
Palacký, J. 1903 B, 316 (Mastodon).
Pompeckj, J. F. 1905 A, 44, pl. iii, fig. 3*a*; pl. iv, fig. 3*b* (Mastodon humboldti).
Pontier, G. 1910 B, 303 (Mastodon humboldti; syn. of M. andium).
Schlesinger, G. 1921 A, 229 (Mastodon humboldti).
Stefanescu, S. 1919 A, 98 (Mastodon humboldti).
Zittel and Schlosser 1923 A, 631 (Mastodon).
Upper Pliocene (Blanco); Texas.

Anancus hyodon (Fischer, G.).

Fischer de Waldheim, G. 1814 A, 341 (Mastotherium).
Abel, O. 1914 A, 202 (Tetrabelodon andium).
Ameghino, F. 1905 A, 39, fig. 43 (Mastodon andium).
Andrews, C. W. 1908 D, 33 (Mastodon andium).
1922 B, 34 (Mastodon andium).
Blainville, H. M. D. 1864 A, iii, 249 (Mastodon andium).
Boule and Thevenin 1920 A, 3, pls. i-ix; text-figs. 2, 5-13, 18, 20, 22, 27 (Mastodon andium).
Burmeister, H. 1879 B, 523 (Mastodon antium).
Capellini, G. 1907 A, 144 (Mastodon andium).
Cipriani, L. 1923 A, 93.
Cope, E. D. 1884 G, 5 (Tetrabelodon andium).
Cuvier, G. 1824, Ossem. foss., ed. 2, v, pt. 2, 527 (Mastodon andium).
1825 A, i, 267, pl. ii, fig. 5; v, pt. 2, 527 (M. andium).

Desmarest, A. G. 1822 A, 385 (Mastodon cordillerarum).
Diener, C. 1912 A, 225 (Mastodon andium).
Dietrich, W. O. 1916 A, 44, 49, 57, 68, 74 (Mastodon andium).
Falconer, H. 1868 A, 74 (Mastodon andium?).
Felix and Lenk 1891 A, 133 (Mastodon adium. This species?).
Fischer, J. B. 1829 A, 408 (Mastodon cordillerarium).
Freudenberg, W. 1922 A, 7, 11, 12, 16, 17 (Mastodon andium, Dibelodon cordillerarum).
Frick, C. 1926 B, 170, 174 [Mastodon (Dibelodon) andium].
Gaudry, A. 1891 B, 4, pl. ii, fig. 2 (Mastodon andium).
Gervais, P. 1855 A, 14, pls. v, vi, figs. 1-8 (Mastodon andium).
Gidley, J. W. 1926 A, 85 (Mastodon andium).
Hay, O. P. 1923 B, 112 (Anancus).
    1924 D, 17 (Anancus).
    1925 B, 2, 4, 5 (Mastodon andium, M. cordillerum, M. cordillerarum, Anancus hyodon).
    1925 C, 25 (Mastodon).
Hays, I. 1834 A, 332, pl. ii, fig. 1 (Mastodon cordillerarum).
Ingalls, A. G. 1926 A, 290, fig. (Dibelodon).
Kaup, J. J. 1843 A, 169 (Mastodon andium).
Leidy, J. 1869 A, 242, 397, pl. xxvii, fig. 14 (Mastodon andium?).
Lull, R. S. 1908 A, 191 (Dibelodon andium).
Lydekker, R. 1886 B, 44 (Mastodon cordillerum).
Matthew, W. D. 1921 B, 186 (Mastodon andium).
Murchison, C. 1868 A, II, 8, 15 (Mastodon andium).
Osborn, H. F. 1918 C, table (Tetralophodon andium).
    1921 A, 10 (M [astodon] andium).
    1923 E, 2 (Mastodon andium).
    1925 A, 17 (Dibelodon andium).
    1925 B, 27, fig. 3 (Dibelodon andium).
    1926 B, 15 (Cordillerion andium).
Owen, R. 1844 B, 269, 270, figs. 1, 2 (Mastodon australis).
Philippi, R. A. 1893 A, 88, figs. 1, 3.
Pompeckj, J. F. 1905 A, 21, 25 (Mastodon andium).
Pontier, G. 1910 B, 303, fig. (Mastodon andium; M. cordillerarum, M. humboldti as syns.).
Scharff, R. F. 1911 A, 408 (Mastodon andium).
Schlesinger, G. 1921 A, 229 (Mastodon andium).
Stefanescu, S. 1918 A, 740 (Mastodon andium).
    1919 A, 97 (Mastodon andium).
Trouessart, E. L. 1905 A, 600 (Mastodon andium).
Virlet d'Aoust, T. 1865 A, 23 (Mastodon andicus).
Wyman, J. 1855 C, 275, pl. xii, figs. 1, 2 (Mastodon andium).
Zittel and Schlosser 1923 A, 631 (Mastodon andium).
    Upper Pliocene? and Pleistocene (Early); South America, Mexico, Texas.

Anancus oligobunis (Cope).

Cope, E. D. 1893 C, 204 (Mastodon).
    1884 G, 5 (Dibelodon shepardi; not Mastodon shepardi Leidy).
    1893 A, 59 (Mastodon).
    1893 P, 473 (Mastodon).
Felix and Lenk 1891 A, 126, 127, pl. xxx, fig. 1 (Mastodon shepardi).
Freudenberg, W. 1922 A, 11, 13, 15, 17, text-fig. 4 (Mastodon).
Hay, O. P. 1925 C, 25, 28 (Mastodon oligobunis, Dibelodon shepardi, Mastodon shepardi).
Osborn, H. F. 1926 B, 15 (Cordillerion).
Villada, M. M. 1903 A, 450, pl. vii (Dibelodon shepardi).
Zittel and Schlosser 1923 A, 681 (Mastodon).
    Pleistocene (Early); Mexico.

Anancus oligobunis antiquissimus (Freudenberg).

Freudenberg, W. 1922 A, 4, 18, pl. i, fig. 3; pl. viii, fig. 3 [Mastodon (Dibelodon)].
    1921 A, 139 (Mastodon; no description).
    Pleistocene (Early); Mexico.

Anancus oligobunis intermedius (Freudenberg).

Freudenberg, W. 1922 A, 4, 23, pl. iv; pl. vi, fig. 1; pl. viii, fig. 4 (Mastodon).
Hay, O. P. 1925 C, 27, 28 (Mastodon).
    Pleistocene (Early); Mexico.

Anancus oligobunis progressus (Freudenberg).

Freudenberg, W. 1922 A, 4, 20, 26, 27, pl. v, fig. 1; pl. vi (Mastodon).
    1921 A, 139 (Mastodon; no description).
Hay, O. P. 1925 C, 27, 28 (Mastodon).
    Pleistocene (Early); Mexico.

Anancus orarius Hay.

Hay, O. P. 1926 C, 8, pl. ii, fig. 1; pl. iii, fig. 1; pl. iv; pl. v, figs. 1-3.
    1927 D, 287.
    Pleistocene (Early); Texas.

Anancus successor (Cope).

Cope, E. D. 1892 G, 227 (Mastodon).
Hay, O. P. 1902 A, 712 (Mammut tropicum, in part).
Cope, E. D. 1893 A, 58, 59, 62, pl. xvi, fig. 1; pl. xvii, figs. 1-3 (Dibelodon tropicus).
Dumble, E. T. 1894 A, 559 (Didelodon tropicus).
Gidley, J. W. 1903 C, 627 (Dibelodon tropicus).
Hay, O. P. 1917 B, 20 (Gomphotherium tropicum).
    1917 G, 220 (Gomphotherium tropicum).
Lucas, F. A. 1902 A, 555 (Mastodon tropicus).
Osborn, H. F. 1924 H, 3 (Stegomastodon).
Matthew, W. D. 1909 C, 120 (Dibelodon tropicus).
    Pliocene (Blanco); Texas.

Anancus tropicus (Cope).

Hay, O. P. 1902 A, 712 (Mammut).
Böse, E. 1905 A, 34 (Mastodon).
Boule and Thevenin 1920 A, 73 (Mastodon).

Eaton, G. F. 1905 A, 330 (Mastodon).
Felix and Lenk 1891 A, 133 (Mastodon).
Freudenberg, W. 1921 A, 139 (Mastodon).
  1922 A, 4, 8, 11, 28, pl. iii, fig. 1; pl. vi, fig. 3; text-fig. 9 [Mastodon (Dibelodon)].
Hay, O. P. 1925 C, 31 (Mastodon).
  1926 C, 12.
Osborn, H. F. 1903 E, 249 (M.).
  1921 A, 10 (Mastodon).
  1926 B, 15 (Cordillerion).
Villada, M. M. 1903 A, 450 (Dibelodon).
Zittel and Schlosser 1923 A, 631, 680 (Mastodon).
  Upper Pliocene (Blanco); Mexico.

Anancus sp. indet.

Bárcena, M. 1882 A, 20 ("mastodonte"). Pleistocene?; Mexico.
Cope, E. D. 1885 M, 494 (Mastodon). Miocene; Mexico.
Gidley, J. W. 1922 B, 120 (Dibelodon). Pliocene? (San Pedro Valley); Arizona.
Hay, O. P. 1927 D, 16, 266, 267, 268. Pleistocene; California, Idaho.
Lucas, F. A. 1900 H, 99 ("Mastodon; not Mastodon americanus").

STEGOMASTODON Pohlig. Type *Mastodon mirificus* Leidy.

Pohlig, H. 1912 A, 193.
Hay, O. P. 1902 A, 711 (Mammut, in part).
Gidley, J. W. 1926 A, 86.
Hay, O. P. 1914 A, 373 (Rhabdobunus).
Matthew, W. D. 1915 B, 15 (Syn. of Dibelodon).
  1918 A, 201.
Merriam, J. C. 1917 A, 443 (Stegodon).
Osborn, H. F. 1925 A, 15.

Stegomastodon arizonæ Gidley.

Gidley, J. W. 1924, in Osborn, H. F. 1924 H, 4 (Stegomastodon).
  1922 B, 120 (Dibelodon? n. sp.?).
  1926 A, 86, pls. xxxiii-xxxix (Stegomastodon).
Hay, O. P. 1927 D, 136 (Dibelodon sp. indet.); 301 (Anancus); 313 (Stegomastodon).
Ingalls, A. G. 1926 A, 290, fig. (Stegomastodon).
Osborn, H. F. 1925 A, 15, fig. (Stegomastodon).
  Lower Pleistocene; Arizona.

Stegomastodon elegans (Hay).

Hay, O. P. 1917 B, 21, pl. iii, figs. 1, 2; not fig. 3 (Gomphotherium).
  1917 G, 219, pl. xxvi (Gomphotherium).
  1923 B, 112, 113, figs. 1, 2.
  1924 D, 378 (Gomphotherium).
  Pleistocene (Aftonian); Kansas.

Stegomastodon mirificus (Leidy).

Hay, O. P. 1902 A, 711 (Mammut).
Baker, F. C. 1920 A, 470 (Rabdobundus).
Barbour, E. H. 1914 B, 181 (Mastodon mercificus).
  1914 C, 222 (Mammut).
Boule and Thevenin 1920 A, 72 (Mastodon).
Calvin, S. 1909 B, 355, pl. xxvii (Mammut).
  1910 A, xii ("mastodon").
Dall and Harris 1892 A, 286 (Mastodon).
Frick, C. 1921 A, 409 (Tetralophodon).
Gidley, J. W. 1903 C, 619, 627 (Dibelodon).
  1926 A, 86, 87 (Stegomastodon).
Haug, E. 1911 A, 1886 (Mastodon).
Hay, O. P. 1914 A, 26, 374, pl. xlviii, figs. 2, 3; pl. xlix, fig. 2; pl. 1 (Rhabdobunus).
  1919 D, 374 (Stegomastodon).
  1921 B, 403 (Stegomastodon).
  1923 A, 377 (Stegomastodon).
  1924 D, 16, 35 (Anancus).
  1926 E, 388, 390 (Anancus).
  1927 D, 301 (Anancus); 74, 312 (Stegomastodon).
  1928 B, 238 (Mastodon).
  1928 C, 423, 425, 426 (Stegomastodon).
Lartet, E. 1859 A, 499, 505 (Mastodon).
Lindgren, W. 1898 A, 628 (Mastodon).
Lindgren and Drake 1904 A, 3 (Mastodon).
Louderback, G. D. 1924 A, 7 (Mastodon).
Lucas, F. A. 1902 A, 555 (Mastodon).
  1904 F, 3 (Mastodon).
Lull, R. S. 1908 A, 191 (Dibelodon).
Matthew, W. D. 1909 C, 120 (Dibelodon).
  1918 A, 201 (Stegomastodon).
Merriam, J. C. 1917 A, 432, 433 (Mastodon); 435 [Dibelodon (Stegodon)].
Merrill, G. P. 1907 A, 45 (Mastodon).
Newberry, J. S. 1870 D, 28 (Mastodon).
Osborn, H. F. 1901 G, 160 (Elephas).
  1905 H, 223 (Mastodon).
  1909 D, 82 (Dibelodon); 83, 84 (Mastodon).
  1910 B, 363, 366, 368 (Stegodon, Mastodon).
  1918 A, 30, 32 (Dibelodon).
  1918 C, 135 (M.); table (Tetralophodon, Stegomastodon).
  1921 A, 10, 11 (Mastodon).
  1922 A, 5 (M.).
  1922 E, 282 (M.).
  1924 H, 3 (Stegomastodon mirificus; S. aftoniæ).
  1925 A, 16 (Stegomastodon, Mastodon).
  1925 B, 27 (Mastodon).
Pohlig, H. 1912 A, 193 (Stegomastodon).
Pontier, G. 1910 B, 306 (Mastodon).
Ruschenberger and Tryon 1879 A, 14 (Mastodon).
Shimek, B. 1910 A, 126, 127 (Mammut).
  1910 B, 316 (Mammut).
  1912 A, 128 (Mammut).
Zittel and Schlosser 1923 A, 631, 680 (Mastodon).
  Pleistocene; Nebraska: (Aftonian); Iowa Kansas: (Idaho); Idaho.

Stegomastodon nebrascensis Osborn.

Osborn, H. F. 1924 H, 5, fig. 2.
  Middle Pliocene (Snake Creek); Nebraska.

Stegomastodon texanus Osborn.

Osborn, H. F. 1924 H, 3, fig. 2 (Stegomastodon).
  Upper Pliocene (Blanco); Texas.

GOMPHOTHERIUM Burmeister. Type *Mastodon angustidens*.

Burmeister, H. 1837, Handb. Naturges., 795.
Hay, O. P. 1902 A, 707 (Mammut, in part).
Abel, O. 1907 C (80) (Tetrabelodon).
 1912 F, 242, 703, figs. 431-433 (Tetrabelodon).
 1913 B, 750 (Tetrabelodon, Bunolophodon).
 1914 A, 193, 200 (Tetrabelodon).
 1914 B, 73, 74, figs. 23, 24 (Tetrabelodon, in part).
 1914 C, 384 (Tetrabelodon).
 1919 A, 790, fig. 594 (Mastodon).
 1922 C, 173, figs. 139-141 (Mastodon).
Ameghino, F. 1889 A, 1017 (Mastodon).
 1902 A, 39 (Mastodon).
 1906 A, 340 (Mastodon).
 1912 A, 47 (Mastodon).
Andrews, C. W. 1903 B, 99 (Tetrabelodon).
 1903 D (Mastodon).
 1903 E, 226 (Tetrabelodon).
 1906 A, xviii (Tetrabelodon).
 1907 C, 302 (Tetrabelodon).
 1908 A, 398 (Tetrabelodon).
 1912 A, 454 (Tetrabelodon).
 1922 B, 23, figs. 12-17 (Tetrabelodon); 33 (Rhynchotherium).
Bach, F. 1910 A (Mastodon).
Baird, S. F. 1876 A, ccx (Mastodon).
Barbour, E. H. 1914 B, 177 (Tetrabelodon); 180 (Dibelodon); 181 (Gomphotherium); 186 (Eubelodon, type *E. morrilli* Barbour).
 1915 B, 217 (Megabelodon, type *Tetrabelodon lulli* Barbour).
 1917 A, 512 (Tetrabelodon, Genomastodon, Mastelephas).
 1927 A, 132 (Amebelodon, type *A. fricki*).
Boule and Thevenin 1920 A, 3 (Mastodon).
Branca, W. 1907 A, 9 ("mastodonten").
Bronn, H. G. 1849 A, 703 (Mastodon).
Burmeister, H. 1879 B, 521 (Mastodon).
Capellini, G. 1907 A (Mastodon).
Cooper, C. F. 1922 D, 609 (Bunolophodon).
 1923 B, 263 (Tetrabelodon).
Cope and Matthew 1915 A, pl. cxx.
Depéret, C. 1907 B (Mastodon).
Diener, C. 1912 A, 206 (Mastodon).
Dollo, L. 1889 I, 682 (Tetrabelodon).
Eales, N. B. 1926 A, 541, 543.
Eaton, G. F. 1914 A, 145 (Dibelodon).
Falconer, H. 1868 A, II, 74 (Rhynchotherium).
Freudenberg, W. 1922 A, 12 (Tetrabelodon).
Frick, C. 1926 B, 124 [Trilophodon (Serridentinus), Rhynchotherium].
 1926 C, 440 (Trilophodon).
Gaudry, A. 1896 A, 99 (Mastodon).
 1906 A, 8 ("mastodontes").
Gawrilenko, A. 1924 A, 234 (Tetrabelodon).
Gervais, P. 1852 A, 38 (Mastodon).
 1859 A, 67, text-fig. 12 (Mastodon).
Giebel, C. G. 1855 A, 78 (Mastodon).
 1883 A, pl. lxxxviii (Mastodon).
Gloger, C. W. L. 1842, Hand-Hilfsbuch, 119 (Gamphotherium; type *Mastodon angustidens*).
Haug, E. 1911 A, 1706 (Tetralophodon).
Hay, O. P. 1918 B, 12.
 1919 A, 311.
 1919 D, 372.
 1923 A, 486.
 1923 B, 109, 112.
 1925 E, 382.
Hoernes, R. 1886 A, 684 (Mastodon).
Hutchinson, H. N. 1910 A, 269, pl. xlvi (Tetrabelodon).
Joleaud, L. 1919 A, 708, fig. 3 ("mastodontes").
Knipe, H. R. 1912 A, 160, fig. (Tetrabelodon).
Kunz, G. F. 1916 A, 487 (Eubelodon).
Lankester, E. R. 1905 A, 117 (Tetrabelodon).
Lartet, E. 1859 A, 482 (Mastodon).
Leche, W. 1921 A, 69 (Mastodon).
Lee, Stone and Gale 1915 A, 27 ("mastodons"); 34, pl. vi ("trilophodon").
Leidy, J. 1871 J, 142 (Rhynchotherium).
 1873 B, 237 (Rhynchotherium).
Lönnberg, E. 1907 B, 62, fig. 4 (Tetrabelodon).
Lull, R. S. 1908 A, 189 (Tetrabelodon); 191 (Dibelodon).
 1909 A, 657, figs. 7, 14, 15 (Tetrabelodon); 658 (Dibelodon).
 1914 E, 63, 67, pl. i, fig. 3; pl. ii, fig. 5 (Tetrabelodon).
 1917 B, 592, 595, 596, 597 (Dibelodon, Tetralophodon, Trilophodon).
Lydekker, R. 1903 D, 124 ("mastodons").
 1903 E, 170, fig. 2 ("mastodon").
 1907 C, 676 (Tetrabelodon).
Matsumoto, H. 1923 A, 103, 117, 119, 120 (Trilophodon, Megabelodon, Tetrabelodon).
 1924 A, 58 (Tetralophodon).
Matthew, W. D. 1909 C, 120 (Dibelodon).
 1915 B, 15 (Dibelodon); 16 (Tetralophodon, Rhynchotherium); 17 (Gomphotherium).
 1915 K, fig. 35 (Trilophodon).
 1916 G, 487, fig. (Mastodon, Dibelodon).
 1918 A, 186 (Trilophodon); 200 (Zygolophodon); 201 (Megabelodon, Eubelodon).
 1921 B, 189 (Rhynchotherium).
 1924 A, 5 (Serridentinus, Trilophodon).
Matthew and Cook 1909 A, 367 (Gomphotherium, Dibelodon, Tetrabelodon).
Meyer, H. 1867 C, 788 (Trilophodon).
Moreau, L. 1914 A, 87 (Mastodon).
Osborn, H. F. 1909 D, 78 (Trilophodon).
 1910 B, 558 (Dibelodon); 633 (Tetralophodon).
 1918 A, 24 (Tetrabelodon).
 1918 C, table (Gomphotherium, Trilophodon, Tetralophodon, Eubelodon, Mastotherium, Bunolophodon, Rhynchotherium).
 1919 D, 226 (Megabelodon).
 1921 A, 3, 5, figs. 1, 2 (Rhynchotherium).
 1923 E, 2 (Serridentinus; type *Mastodon productus* Cope).
 1924 F, 1 (Serridentinus).
 1924 H, 1 (Tetralophodon).
 1925 A, 8, 9 (Trilophodon); 12 (Tetralophodon); 14 (Rhynchotherium).
 1925 B, 23 (Trilophodon, Tetralophodon).
 1926 B, 4 (Serridentinus, Trilophodon).
Owen, R. 1860 E, 353 (Mastodon).
Palacký, J. 1903 B, 313, 317 (Mastodon).
Palmer, T. S. 1904 A, 298, 943.
Pavlow, M. 1903 C, 130 (Mastodon).

Petronievics, B. 1921 A, 102 (Tetrabelodon).
Pilgrim, G. E. 1912 A, 16 (Tetrabelodon).
1913 A, 292 (Tetrabelodon).
Roth, S. 1908 A, 141 (Mastodon).
Scharff, R. F. 1911 A, 231 (Tetrabelodon).
Schlesinger, G. 1912 A (Tetrabelodon).
1921 A, 2 (Tetrabelodon, Bunolophodon).
Schlosser, M. 1911 A, 137 (Mastodon); 163 (Tetrabelodon).
Schmidt, O. 1886 A, 231, fig. 40 (Mastodon).
Schuchert, C. 1915 A, 942.
Schuchert and Levene 1927 A, 336, 352, fig. (Trilophodon).
Scott, W. B. 1913 A, 430, 437 (Tetrabelodon); 681 (Gomphotherium).
Spencer, J. W. 1898 A, 26 ("mastodon").
Stefanescu, S. 1913 B, 735 (Mastodon).
1913 C, 883 (Mastodon).
1918 A, 740 (Mastodon).
1919 A, 98 (Mastodon).
1919 B, 467 ("bunolophodontes").
1919 C, 907 (Mastodon).
1919 D, 1211 (Mastodon).
Steinmann, G. 1907 A, 483 (Mastodon).
Stromer, E. 1906 A, 210, 216 (Mastodon).
1908 B, 174 (Mastodon).
Terra, P. 1911 A, 334 (Tetralophodon).
Thomas, O. 1895 A, 191, 192 (Gamphotherium).
Trouessart, E. L. 1905 A, 599 (Tetrabelodon).
Vacek, M. 1877 A, 45 (Bunolophodon).
1877 B, 52 (Mastodon).
Warren, J. C. 1852 C, 139 (Tetralophodon).
Weber and Abel 1928 A, xix, 465, figs. 294, 295. (Bunolophodon).
Wilckens, O. 1911 A, 708 ("mastodonten").
Wiman, C. 1923 A, 225 (Mastodon).
Woodward, A. S. 1904 C, 194, fig. 6 (Tetrabelodon).
1923 C, 63, figs. 55, 60 (Tetrabelodon).
Zittel and Schlosser 1911 A, 538, figs. 731-733 (Mastodon, Tetralophodon).
1923 A, 629, figs. 773-775 (Mastodon, Tetralophodon).

Gomphotherium abeli (Barbour).

Barbour, E. H. 1925 C, 91, figs. 52-56 (Tetrabelodon).
Cook, H. J. 1928 B, 37 (Trilophodon).
Frick, C. 1926 B, 168 (Trilophodon).
Pliocene (Devil's Gulch); Nebraska.

Gomphotherium anguirivale (Osborn).

Osborn, H. F. 1926 B, 10, 11, fig. 8 (Serridentinus).
Pliocene (Snake Creek); Nebraska.

Gomphotherium barbouri Osborn.

Osborn, H. F. 1921 A, 9, 10 (Tetralophodon).
1924 H, 1, fig. 1 [Tetralophodon (Morrilla, Type *T. barbouri*)].
1925 A, 12 [Tetralophodon (Morrillia)].
1925 B, 26 [Tetralophodon (Morrillia)].
Upper Pliocene; Nebraska.

Gomphotherium brevidens (Cope).

Hay, O. P. 1902 A, 710 (Mammut).
Abel, O. 1919 A, 824, fig. 24 (Mastodon).
Boule and Thevenin 1920 A, 71 (Mastodon).
Depéret, C. 1912 A, 709 (Mastodon).
Dollo, L. 1889 I, 685 (Tetrabelodon).
Matthew, W. D. 1901 B, 359, 374 (Tetrabelodon).
1909 C, 114 [Trilophodon (=Gomphotherium breviceps)].
1918 A, 199 (Mastodon).
Osborn, H. F. 1903 E, 249 (M.).
1910 B, 292 (Trilophodon).
1918 C, 135 (Rhynchotherium).
1921 A, 5, 6 (Rhynchotherium).
1922 F, 4 (Rhynchotherium).
1926 B, 13 (Rhynchotherium).
Palacký, J. 1903 B, 311 ("brevidens").
Pavlow, M. 1901 A, 13, pl. i, fig. 4 (This species?).
1907 A, 142.
Schlesinger, G. 1921 A, 159, 161, 226 (Mastodon tapiroides).
Weber and Abel 1928 A, 469 (Rhynchotherium).
Middle Miocene (Deep River); Montana, Oregon.

Gomphotherium brewsterensis (Osborn).

Osborn, H. F. 1926 B, 11, fig. 9 (Serridentinus).
Pliocene; Florida.

Gomphotherium campester (Cope).

Hay, O. P. 1902 A, 710 (Mammut campestre).
Andrews, C. W. 1908 D, 32 (Tetrabelodon campestris).
1909 A, 347, 349 (Tetrabelodon).
Barbour, E. H. 1915 A, 90 (Tetrabelodon).
1915 B, 216 (Tetrabelodon).
Boule and Thevenin 1920 A, 72 (Mastodon).
Cope and Matthew 1915 A, pls. cxx, cxxi; pl. cxxii, figs. 1, 2; pl. cxxiii, fig. 1 (Mastodon, Tetralophodon).
Freudenberg, W. 1922 A, 6, 24 (Mastodon).
Frick, C. 1921 A, 409 (Tetralophodon).
Ingalls, A. G. 1926 A, 290, fig. (Tetralophodon).
Lull, R. S. 1908 A, 190 (Tetrabelodon).
Matthew, W. D. 1909 C, 116 (Trilophodon).
1915 B, 24 (Tetralophodon).
1918 A, 201 (Mastodon).
Merriam, J. C. 1917 A, 438 (Tetralophodon).
Osborn, H. F. 1903 E, 249 (M.).
1909 D, 81 (Trilophodon).
1910 B, 353 (Tetralophodon).
1918 A, 27 (Tetrabelodon).
1918 C, table (Trilophodon).
1921 A, 7, 10, fig. 4 (Tetralophodon).
1923 E, 3 (Tetralophodon).
1925 B, 25, fig. 3 (Tetralophodon).
Pavlow, M. 1903 C, 137 (Mastodon).
Pompeckj, J. F. 1905 A, 47 (Mastodon).
Schlesinger, G. 1921 A, 228, 229 (Mastodon).
Sternberg, C. H. 1909 C, 123 (Trilophodon).
Trouessart, E. L. 1905 A, 600 (Tetrabelodon).
Weber and Abel 1928 A, 469 (Bunolophodon).
Zittel and Schlosser 1923 A, 631 (Mastodon).
Pliocene (Republican River); Kansas, Nebraska.

Gomphotherium? chapmani (Leidy).

Leidy, J. 1869 A, 248, 396 (Mastodon).
Hay, O. P. 1902 A, 710 (Mammut).

Blainville, H. M. D. 1864 A, III, 257 (Mastodon chapmani; syn. "de l'animal de l'Ohio").
Osborn, H. F. 1921 A, 11 (Mastodon).
Locality and formation unknown.

Gomphotherium cimarronis (Cope).

Cope, E. D. 1893 A, 18 (Tetrabelodon serridens?); 20, pl. iii, figs. 2, 3 (T. s. cimarronis).
Freudenberg, W. 1922 A, 7 (Tetrabelodon).
Frick, C. 1926 B, 141, 142, 156, 157, 163, 165, 167 [Trilophodon (Serridentinus)].
Hay, O. P. 1925 B, 5, pl. iii, figs. 2-6; pl. iv; text-figs. 1-9.
1925 C, 22.
Matthew, W. D. 1915 L, 470 (Trilophodon sp.).
Montgomery, T. H. 1904 A, 57 (Tetrabelodon serridens cimarronis).
Osborn, H. F. 1921 A, 8 (Trilophodon serridens cimarronis).
1926 B, 12 (Serridentinus).
Trouessart, E. L. 1905 A, 600 (Syn. of Tetrabelodon serridens).
Miocene (Clarendon, Fleming); Texas.

Gomphotherium? conodon Cook.

Cook, H. J. 1909 A, 183, fig. 1.
1912 D, 42 (This genus?).
Joleaud, L. 1919 D, 414 (Mastodon).
O'Harra, C. C. 1920 A, 157.
Miocene (Upper Harrison); Nebraska.

Gomphotherium dinotherioides (Andrews).

Andrews, C. W. 1909 A, 347, figs. A-C (Tetrabelodon).
Abel, O. 1913 B, 750, fig. 78.
1914 A, 202, fig. 161 (Tetrabelodon).
Andrews, C. W. 1908 D, 28 (Tetrabelodon).
1916 C, 128 (Tetrabelodon).
1921 B, 534 (Tetrabelodon).
1922 B, 29, fig. 17 (Tetrabelodon).
Freudenberg, W. 1921 A, 139 (This species?).
1922 A, 4, 11, 14, 18, text-fig. 6 (Mastodon, Tetrabelodon. This species?).
Hay, O. P. 1925 C, 24 (Mastodon, Tetrabelodon).
Matthew, W. D. 1918 A, 201 (Mastodon).
Osborn, H. F. 1921 A, 6 (Rhynchotherium).
Schlesinger, G. 1921 A, 230 (Mastodon).
Sternberg, C. H. 1907 B, 971 ("inferior-tusked mastodon").
1909 C, 123 ("gigantic pachyderm").
Weber and Abel 1928 A, 468, fig. 297 (Rynchotherium).
Lower Pliocene or Upper Miocene (River Republican); Kansas, Mexico.

Gomphotherium? emmonsi sp. nov.

Emmons, E. 1858 B, 199, fig. 23 (Mastodon giganteus).
1860 A, 218, fig. 186 ("mastodon").
Leidy, J. 1869 A, 396 (Mastodon obscurus?).
Pleistocene?; North Carolina.

Gomphotherium euhypodon (Cope).

Hay, O. P. 1902 A, 710 (Mammut).
Andrews, C. W. 1908 D, 32 (Tetrabelodon euhyphodon).
Andrews, C. W. 1909 A, 349 (Tetrabelodon).
Barbour, E. H. 1914 B, 181, 190 (Mastodon).
1915 B, 222 (Tetrabelodon).
1917 A, 172 (Tetrabelodon. This species?).
Dumble, E. T. 1920 A, 231 (Trilophodon euphyodon).
Freudenberg, W. 1922 A, 12 (Mastodon).
Matthew, W. D. 1909 C, 116 (Trilophodon).
1920 E, 231 (Trilophodon euphyodon).
Merriam, J. C. 1917 A, 438 (Tetralophodon).
Osborn, H. F. 1903 E, 249 (M.).
1909 D, 81 ("Trilophodon").
1910 B, 353 (Tetralophodon).
1918 C, 135 (Rhynchotherium).
1921 A, 5, fig. 2 (Rhynchotherium).
1923 E, 3 (Rhynchotherium).
Pavlow, M. 1903 C, 137 (Mastodon).
Pompeckj, J. F. 1905 A, 47 (Mastodon).
Schlesinger, G. 1921 A, 50, 53, 63, 229 (Mastodon; syn. of M. angustidens).
Trouessart, E. L. 1905 A, 599 (Tetrabelodon).
Upper Miocene (Republican River); Kansas: or Lower Pliocene (Devil's Gulch); Nebraska.

Gomphotherium falconeri (Osborn).

Osborn, H. F. 1923 E, 3 (Rhynchotherium).
Upper Pliocene (Blanco); Texas.

Gomphotherium floridanum (Leidy).

Hay, O. P. 1902 A, 710 (Mammut).
Allen, G. M. 1926 A, 454.
Freudenberg, W. 1922 A, 6, 9, 33 (Mastodon).
Frick, C. 1921 A, 408 (Mastodon); 409 (Trilophodon).
1926 B, 141 (Mastodon); 169 [Trilophodon (Serridentinus)].
Gidley, J. W. 1911 A, 436 (Mammut).
Hay, O. P. 1917 G, 220.
1923 A, 486.
1925 C, 22.
Leidy and Lucas 1896 A, viii, 15, pls. i-vii (Mastodon).
Lucas, F. A. 1902 A, 555 (Mastodon).
Matson and Clapp 1909 A, 136, 137 (Mastodon).
Matthew, W. D. 1909 C, 116 (Trilophodon).
Merriam, J. C. 1917 A, 439 [Mastodon (Trilophodon)].
Merrill, G. P. 1907 A, 45 (Mastodon).
Moodie, R. L. 1923 B, 224.
Osborn, H. F. 1903 E, 249 (M.).
1905 E, 931 (Mastodon floridianus).
1910 B, 348 (Mastodon).
1918 C, table (Trilophodon).
1921 A, 7 (Trilophodon).
1923 E, 2 (Serridentinus).
1926 B, 12 (Serridentinus).
Sellards, E. H. 1914 A, 162 (Mastodon).
1915 A, 135 (Mastodon. This species?).
1915 D, 72, 104, figs. 34, 36 [Mastodon (Trilophodon)]; 106, fig. 35 ("mastodon." This species?).
1915 in Matson, G. C. 1915 A, 67 (Mastodon).
1916 B, 94 (Mastodon).
Spencer, J. W. 1895 A, 136 (Mastodon).
Trouessart, E. L. 1905 A, 599 (Tetrabelodon).
Upper Pliocene or Lower Pleistocene (Alachua); Florida.

Gomphotherium fricki (Barbour).

Barbour, E. H. 1927 A, 131, figs. 89-91 (Amebelodon).
Cook, H. J. 1928 B, 38 (Amebelodon).
Weber and Abel 1928 A, 478, fig. 307*a* (Amebelodon).
Pleistocene? (Early); Nebraska.

Gomphotherium giganteum (Osborn).

Osborn, H. F. 1921 A, 7, 10, fig. 4 (Trilophodon).
Andrews, C. W. 1922 B, 34.
Barbour, E. H. 1925 D, 111 (Tetralophodon).
Cook, H. J. 1928 B, 38 (Trilophodon).
Frick, C. 1926 B, 157 (Tetrabelodon).
Ingalls, A. G. 1926 A, 290, fig. (Trilophodon).
Osborn, H. F. 1923 E, 3 (Trilophodon).
1925 A, 10, 23, fig. (Trilophodon).
1925 B, 25, fig. 3 (Trilophodon).
Peterson, O. A. 1928 A, 111 ("Trilophodon").
Miocene or Pliocene; South Dakota.

Gomphotherium guatemalense (Osborn).

Osborn, H. F. 1926 B, 12, fig. 12 (Serridentinus).
Pleistocene?; Guatemala.

Gomphotherium leidii (Frick).

Frick, C. 1926 B, 125, 155, 169, figs. 16*a*-16*d*, 24*a*-24*c* [Trilophodon (Serridentinus)].
Upper Pliocene or Lower Pleistocene (Alachua); Florida.

Gomphotherium ligoniferum Cope.

Cope, E. D. 1915, in Cope and Matthew, 1915 A, pl. cxxii, figs. 3, 5; pl. cxxiv (Mastodon).
Matthew, W. D. 1915, in Cope and Matthew, 1915 A, pls. cxxii, cxxiv (Tetralophodon? sp.).
Osborn, H. F. 1923 E, 3 (Trilophodon).
Miocene (Republican River); Nebraska.

Gomphotherium lulli (Barbour).

Barbour, E. H. 1914 C, 213, 222, pls. iii-vi (Tetrabelodon); 217 (Megabelodon).
Barbour, E. H. 1915 A, 87, figs. 1, 2 (Tetrabelodon).
1915 B, 134, fig. 5 (Tetrabelodon).
1916 B, 253, fig. 2 (Tetrabelodon).
1917 A, 512 (Tetrabelodon, Megabelodon).
Boule and Thevenin 1920 A, 73 (Mastodon).
Frick, C. 1926 B, 147, 168 [Trilophodon (Serridentinus)].
Kunz, G. F. 1916 A, pl. opp. p. 324, fig. 6; pl. opp. p. 376 (Tetrabelodon).
Lull, R. S. 1917 B, 597, fig. 203.
Matthew, W. D. 1918 A, 201 (Megabelodon).
Osborn, H. F. 1918 C, 137 (Megabelodon); table (Trilophodon tulli).
1921 A, 7 (Trilophodon).
1925 A, 10 (Trilophodon).
Schuchert and Levene 1927 A, 352 (Trilophodon).
Pliocene (Snake Creek); Nebraska.

Gomphotherium morrilli (Barbour).

Barbour, E. H. 1914 B, 181, 186, pls. ix-xiii (Eubelodon).
Barbour, E. H. 1914 C, 217, 220, 222, fig. 3 (Eubelodon).
1915 A, 91 (Eubelodon).
1915 B, 134, fig. 5 (Eubelodon).
1916 B, 253, fig. 3 (Eubelodon).
1925 C, 91.
Barbour and Cook 1917 A, 172 (Eubelodon).
Cook, H. J. 1928 B, 37 (Trilophodon).
Frick, C. 1926 B, 168 (Eubelodon).
Kunz, G. F. 1916 A, 372, pl. opp. p. 324, fig. 7 (Eubelodon).
Osborn, H. F. 1918 A, 29 (Eubelodon).
1918 C, 137 (Eubelodon); table (Trilophodon).
1921 A, 10 (Eubelodon).
Peterson, O. A. 1928 A, 114 ("Eubelodon").
Pliocene (Devil's Gulch); Nebraska.

Gomphotherium obliquidens (Osborn).

Osborn, H. F. 1926 B, 9 (Serridentinus).
Pleistocene (Early); South Carolina.

Gomphotherium obscurum (Leidy).

Leidy, J. 1869 A, 244, 396, pl. xxvii, figs. 13, 15?, 16? (Mastodon).
Hay, O. P. 1902 A, 711 (Mammut).
1925 E, 383, 387 (Mastodon).
Cooper, J. G. 1875 A, 390 (Mastodon).
Cope, E. D. 1880 V, 61 (Mastodon).
Dall and Harris 1892 A, 73, 222 (Mastodon).
Frick, C. 1926 B, 142, 143 (Mastodon).
Harlan, R. 1842 B, 143 (Mastodon longirostris).
Hay, O. P. 1925 C, 24.
Lindgren, W. 1911 A, 51 (Mastodon).
Lucas, F. A. 1902 A, 555 (=Mastodon shepardi?).
1902 B, 246 (Mastodon).
Lull, R. S. 1908 A, 191 (Dibelodon).
Matthew, W. D. 1918 A, 201 (Mastodon).
Merrill, G. P. 1907 A, 45 (Mastodon).
Meyer, H. 1867 B, 69 ("Baltimore tooth").
Osborn, H. F. 1903 E, 249 (M.).
1921 A, 7 (Trilophodon).
1923 E, 2 (Serridentinus).
Schlesinger, G. 1921 A, 50, 159, 228 (Mastodon angustidens subtapiroidea).
Trouessart, E. L. 1905 A, 599 (Tetrabelodon).
Turner, H. W. 1895 A, 375 (Mastodon).
Miocene?; Maryland?.

Gomphotherium osborni (Barbour).

Barbour, E. H. 1916 C, 522, figs. 1-4 (Tetrabelodon).
1917 A, 499, figs. 1-12 (Tetrabelodon); 512 (Mastelephas, an alternative name).
1925 C, 91, 94 (Tetrabelodon).
Osborn, H. F. 1921 A, 7 (Trilophodon).
Peterson, O. A. 1928 A, 111, 112 ("Trilophodon").
Pliocene (Snake Creek); Nebraska.

Gomphotherium paladentatum Cook.

Cook, H. J. 1922 A, 6, pl. v.; pl. vi, fig. 4? (Trilophodon).
1928 B, 38 (Trilophodon).
Upper Miocene?; Colorado.

Gomphotherium petersoni Hay.

Hay, O. P. 1928 in Peterson, O. A. 1928 A, 121.
Peterson, O. A. 1928 A, 111, pls. xi-xv; text-figs. 21, 22 (Serridentinus fricki).
Miocene (Brown's Park); Colorado.

Gomphotherium phippsi Cook.

Cook, H. J. 1928 B, pls. i-iii (Trilophodon).
Miocene (Devil's Gulch); Nebraska.

Gomphotherium pojoaquense (Frick).

Frick, C. 1926 B, 125, 142, 156, 157, 161, figs. 1*a*, 1*b*, 7*b*, 13, 19*b*, 19*c*, 22*a*, 22*b*, 26, 27 [Trilophodon (Serridentinus)].
Cook, H. J. 1928 B, 40 (Trilophodon).
Peterson, O. A. 1928 A, 112 ("Trilophodon").
Stock, C. 1928 D, 44.
Miocene (Santa Fé); New Mexico.

Gomphotherium? præcursor (Cope).

Cope, E. D. 1893 A, 64, pls. xviii, xix (Dibelodon); 57, pl. xv (Tetrabelodon shepardii. This species?).
Hay, O. P. 1902 A, 711 (Mammut præcursor); 712 (M. shepardi, in part).
Andrews, C. W. 1908 D, 32 (Tetrabelodon?).
Dumble, E. T. 1894 A, 559 (Dibelodon).
Freudenberg, W. 1922 A, 17 (Mastodon).
Gidley, J. W. 1903 C, 627 (Dibelodon præcursor, Tetrabelodon shepardii).
Hay, O. P. 1917 B, 21.
1925 C, 24 (Mastodon, Gomphotherium, Dibelodon; Tetrabelodon dinotherioides).
Lull, R. S. 1908 A, 191 (Dibelodon).
Matthew, W. D. 1909 E, 114 [Trilophodon (=Gomphotherium) proavus]; 116 (Trilophodon); 120 (Dibelodon).
Merriam, J. C. 1917 A, 435 [Trilophodon (Gomphotherium) shepardii]; (Dibelodon præcursor).
Montgomery, T. H. 1904 A, 57 (Dibelodon).
Osborn, H. F. 1903 E, 249 (M.).
1918 C, table (Trilophodon).
1921 A, 8 (Trilophodon).
1926 B, 11, 12 (Serridentinus).
Sellards, E. H. 1913 A, 3, pl. iv, fig. 1; pl. v, fig. 1 ("mastodon").
Miocene (Arikaree); Texas: Pliocene (Blanco); Texas.

Gomphotherium precampestre (Osborn).

Osborn, H. F. 1923 E, 3 (Tetralophodon).
Late Tertiary?; Nebraska.

Gomphotherium? proavus (Cope).

Hay, O. P. 1902 A, 711 (Mammut).
Andrews, C. W. 1909 A, 349 (Tetrabelodon).
Boule and Thevenin 1920 A, 71 (Mastodon).
Dall and Harris 1892 A, 288 (Mastodon).
Dumble, E. T. 1920 A, 233 (Trilophodon).
Freudenberg, W. 1922 A, 11 (Mastodon).
Frick, C. 1926 B, 153, 168 (Trilophodon angustidens proavus).
Lucas, F. A. 1902 A, 555 (Mastodon).
Lull, R. S. 1908 A, 190 (Tetrabelodon).
Matthew, W. D. 1920 E, 233 (Trilophodon).
Osborn, H. F. 1910 B, 292 (Trilophodon).
Osborn, H. F. 1921 A, 6 (Rhynchotherium).
1922 F, 4 (Miomastodon?).
Pompeckj, J. F. 1905 A, 47 (Mastodon).
Schlesinger, G. 1921 A, 50, 63, 228 (Mastodon angustidens proavus).
Weber and Abel 1928 A, 469 (Rhynchotherium).
Zittel and Schlosser 1923 A, 631 (Mastodon).
Upper Miocene (Pawnee Creek); Colorado.

Gomphotherium productum (Cope).

Hay, O. P. 1902 A, 711 (Mammut).
Abel, O. 1913 B, 750 (Tetrabelodon).
1914 A, 202, fig. 160 (Tetrabelodon).
1922 C, 175, fig. 142 (Mastodon).
1925 A, 307, figs. 237 (Serridentinus).
Andrews, C. W. 1908 D, 32 (Tetrabelodon).
1922 B, 33 (Tetrabelodon).
Anonymous, 1921 A, 323 (Trilophodon).
Barbour, E. H. 1925 D, 111 (Serridentinus).
Boule and Thevenin 1920 A, 71 (Mastodon).
Freudenberg, W. 1922 A, 7 (Tetrabelodon).
Frick, C. 1926 B, 125, 126, 142, 158, figs. 1*c*, 5-7*a*, 10-15*c*, 19*a*, 22*c*-24. [Trilophodon (Serridentinus)].
Gidley, J. W. 1903 C, 634 ("Mastodon").
Gilbert, G. K. 1875 A, 543 ("Mastodon").
Hay, O. P. 1925 B, 12.
1925 C, 25 (Mastodon dinotherioides, M. obscurus, M. productus).
Ingalls, A. G. 1926 A, 290, fig. (Serridentinus).
Lee, Stone, Gale 1915 A, pl. vi (Trilophodon).
Lucas, F. A. 1902 A, 555 (Mastodon).
Lull, R. S. 1908 A, 190 (Tetrabelodon).
Matthew, W. D. 1909 C, 116 (Trilophodon = Gomphotherium).
1915 B, 17, 23, fig. 7 (Trilophodon).
1918 A, 199 (Mastodon).
Merrill, G. P. 1907 A, 45 (Mastodon).
Osborn, H. F. 1903 E, 249 (Mastodon).
1903 I, 978 (Trilophodon).
1905 H, 200 (Mastodon).
1910 B, 299, 300, fig. 149 (Trilophodon).
1918 A, 26 (Trilophodon).
1918 C, table.
1919 D, 266 (Trilophodon).
1921 A, 6, 7, figs. 3, 4 (Trilophodon).
1923 E, 2 (Serridentinus).
1924 F, 2, 3 (Serridentinus).
1925 A, 13, 23, fig. (Serridentinus).
1925 B, 26, fig. 3 (Serridentinus).
1926 B, 12 (Serridentinus).
Schlesinger, G. 1921 A, 50, 51, 63, 228 (Mastodon; syn. of M. angustidens).
Scott, W. B. 1913 A, 431, fig. 228.
Sternberg, C. H. 1907 C, 123 (Mastodon).
Stock, C. 1928 D, 43 (Trilophodon).
Weber and Abel 1928 A, 469 (Bunolophodon).
Zittel and Schlosser 1923 A, 631 (Mastodon).
Miocene (Arikaree); New Mexico, Texas, Montana.

Gomphotherium rectidens (Osborn).

Osborn, H. F. 1923 E, 3 (Rhynchotherium).
Middle Miocene (Pawnee Buttes); Colorado.

Gomphotherium republicanum (Osborn).

Osborn, H. F. 1926 B, 6, figs. 5, 6 (Serridentinus).
Lower Pliocene (Republican); Kansas.

Gomphotherium? rugosidens (Leidy).

Hay, O. P. 1902 A, 712 (Mammut).
Allen, G. M. 1926 A, 454.
Hay, O. P. 1923 A, 486.
Lucas, F. A. 1902 A, 555 (Mastodon).
Matson, G. C. 1915 A, 37, pls. ix, x ("mastodon").
Osborn, H. F. 1903 E, 249 (M.).
Pliocene (Bone Valley); Florida, South Carolina.

Gomphotherium serpentirivale, new name.

Osborn, H. F. 1921 B, 2, 4, fig. 1, a (Mastodon matthewi, in part).
1926 B, 13, fig. 11 (Rhynchotherium anguirivalis).
Pliocene (Snake Creek); Nebraska.

Gomphotherium serridens (Cope).

Hay, O. P. 1902 A, 712 (Mammut).
Boule and Thevenin 1920 A, 71 (Mastodon).
Freudenberg, W. 1921 A, 131, 132 (Mastodon).
1922 A, 4, 5, 33, pl. i, figs. 1, 2; text-fig. 1 (Mastodon, Tetrabelodon).
Frick, C. 1926 B, 142, 156, 157, 168 [Trilophodon (Serridentinus)].
Gidley, J. W. 1903 C, 634 (Tetrabelodon. This species?).
Hay, O. P. 1925 B, 14.
1925 C, 22, 23 (Gomphotherium, Mastodon).
1927 D, 298 (Mastodon).
Lucas, F. A. 1902 A, 555 (Mastodon).
Lull, R. S. 1908 A, 190 (Tetrabelodon).
Matson and Clapp 1909 A, 137 (Mastodon).
Matthew, W. D. 1918 A, 199 (Mastodon); 200 (Zygolophodon).
Montgomery, T. H. 1904 A, 57 (Tetrabelodon serridens cimarronis).
Osborn, H. F. 1903 E, 249 (M.).
1918 C, 135 (Rhynchotherium?); table (Trilophodon).
1921 A, 8, fig. 3 (Trilophodon).
1926 B, 11, 12 (Serridentinus).
Zittel and Schlosser 1923 A, 631 (Mastodon).
Lower Pliocene (Clarendon); Texas, Mexico.

Gomphotherium? shepardi (Leidy).

Hay, O. P. 1902 A, 712 (Mammut shepardi, in part).
Boule and Thevenin 1920 A, 73 (Mastodon).
Dumble, E. T. 1894 A, 559 (Tetrabelodon shepardii).
Felix and Lenk 1891 A, 132.
Frech and Geinitz 1903 A, 35 (Mastodon).
Freudenberg, W. 1922 A, 6, fig. 2 (Mastodon sp.); 7, 9 (Dibelodon); 11, 12 (Mastodon); 14, fig. 3 (Mastodon obscurus).
Frick, C. 1921 A, 409.
1926 B, 142, 143, 173 (Mastodon); 139, 175 (Rhynchotherium).
Hay, O. P. 1917 B, 21.
Hay, O. P. 1923 B, 110 (Mastodon, Dibelodon).
1925 C, 24, 25 (Mastodon, Tetrabelodon, Dibelodon).
1925 E, 383 (Mastodon).
1927 D, 301 (Anancus); 302, 308 (Mastodon); 15, 64 (Mastodon obscurus).
Kellogg, R. 1922 A, 61 (Mastodon).
Lindgren, W. 1911 A, 51 (Mastodon obscurus).
Lucas, F. A. 1902 A, 555 (Mastodon).
Lull, R. S. 1908 A, 191 (Mammut?).
Matthew, W. D. 1909 C, 120 (Trilophodon (=G.) shepardii. To Dibelodon?).
1918 A, 200 (Mastodon).
Osborn, H. F. 1903 E, 249 (M.).
1918 C, 135 (Rhynchotherium?); table (Dibelodon).
1919 C, 135 (Rhynchotherium?).
1921 A, 5, 6, fig. 2 (Rhynchotherium).
1923 E, 3 (Rhynchotherium).
Pohlig, H. 1892 B, 313 (Dibelodon rejected).
Rath, G. 1886 A, 105 (Dibelodon).
Rio, A. 1918 A, 367 (Dibelodon shepardy).
Schlesinger, G. 1921 A, 228 (Mastodon).
Trouessart, E. L. 1905 A, 599 (Tetrabelodon).
Whitney, J. D. 1879 B, 233 (Mastodon).
Yates, L. G. 1874 B, 20 (Mastodon obscurus, M. shepardi).
1903 A, 97, 99, pl. ix (Mastodon obscurus).
Zittel and Schlosser 1923 A, 631, 680 (Mastodon).
Late Pliocene or Early Pleistocene; California. The generic position of this species is doubtful.

Gomphotherium? simplicidens (Osborn).

Osborn, H. F. 1923 E, 3 (Trilophodon).
Middle Miocene (Pawnee Creek); Colorado.

Gomphotherium tlaxcalæ (Osborn).

The authors cited use the name *Rhynchotherium.*

Osborn, H. F. 1917 E, 135 (R. tlaxcalæ); table (tlascale).
Frick, C. 1926 B, 171 (R. tlascalæ).
Ingalls, A. G. 1926 A, 290, fig. (R. tlascalæ).
Osborn, H. F. 1918 C, 135.
1921 A, 6, fig. 2 (R. tlascalæ).
1925 B, 30, fig. 3 (R. tlascalæ).
Weber and Abel 1928 A, 469 (Rhynchotherium trascalæ).
Pleistocene?; Mexico: Pliocene; Texas.

Gomphotherium willistoni Barbour.

Barbour, E. H. 1914 B, 181, 184, pls. i, v, vi, viii, xiii (Tetrabelodon).
1914 C, 216, 220, 222, figs.
1915 A, 91 (Tetrabelodon).
1915 B, 134, fig. 5 (Tetrabelodon).
1916 B, 253, fig. 1 (Tetrabelodon).
1917 A, 512 (Tetrabelodon, "Genomastodon").
Barbour and Cook 1917 A, 172 (Tetrabelodon).
Cook, H. J. 1928 B, 37 (Trilophodon).
Frick, C. 1926 B, 141, 142, 168 [Trilophodon (Serridentinus)].
Kunz, G. F. 1916 A, 372, pl. opp. p. 324, fig. 5 (Tetrabelodon).

Osborn, H. F. 1918 A, 29 (Tetrabelodon).
1921 A, 7 (Trilophodon).
Pliocene (Devil's Gulch); Nebraska.

Gomphotherium sp. indet.

Buwalda, J. P. 1914 B, 307, fig. 1 (Tetrabelodon?). Miocene (Truckee beds); Nevada.
1914 C, 352 ("mastodon"). Miocene (Truckee); Nevada.
1924 A, 572 (Tetrabelodon. This genus?). Middle Neocene (Payette); Idaho.
Diller, J. S. 1896 A, 478 ("mastodon"). Pliocene, Oregon.
1902 A, 59 ("mastodon"). Pliocene, Oregon.
Frick, C. 1926 B, 166, 168. Miocene (Santa Fé); New Mexico, California, Nebraska.
Gidley, J. W. 1903 C, 634 ("Mastodon"). Upper Miocene, Texas.
Gilbert, G. K. 1875 A, 543 (Mastodon). Pliocene?; New Mexico.
Hay, O. P. 1923 A, 380. Pleistocene; Florida.
1927 D, 16, 136 (This genus?). Pleistocene; Arizona, California.
Lindren and Drake 1904 A, 3 (Mastodon). Pleistocene (Idaho); Idaho.
Matthew, W. D. 1923 A, 12 (Trilophodon?). Lower Pliocene (Upper Snake Creek): Nebraska.
Merriam, J. C. 1911 A, 189, fig. 29 (Tetrabelodon). Pliocene (Cedar Mountain); California.
1911 B, 205, 206, 209, 214, 215, 271, pl. xxxiii, figs. 46, 47 (Tetrabelodon?).
1913 E, 381 (Tetrabelodon?). Pliocene (Orindan); California.
1914 C, 646 (Tetrabelodon?).
Merriam, J. C. 1915 E, 194, 197, 203, figs. 19, 20, 38, 39 (Tetrabelodon. This genus?). Miocene (Merychippus); 226, figs. 38-39*b* ("mastodon"): Pleistocene? (Etchigoin); California.
1916 D, 134, fig. 3 (Tetrabelodon?). Late Tertiary; Oregon.
1917 A, 426 (Tetrabelodon?). Orinda, California; 428 (Tetrabelodon?). Rattlesnake, Oregon; 429 (Mastodon, Tetrabelodon?). Pliocene (Thousand Creek); Nevada; 431 (Tetrabelodon?). Pliocene (Ricardo); California; 437. Pliocene (Snake Creek); Kansas.
1919 A, 450, 525, 527, 548, figs. 160-162 (Tetrabelodon?). Miocene (Barstow) and Pliocene (Ricardo); California.
Osborn, H. F. 1919 D, 266, fig. 1 (Megabelodon). Pliocene; Texas.
Pan, I. 1925 A, 345, figs. 1-5 (This genus?). Pliocene?; "Lusiana."
Sellards, E. H. 1913 A, pl. iv, figs. 1, 2; pl. v, fig. 1 ("mastodons").
1915 D, 106, fig. 35 (Miocene or Pliocene); Florida.
Sinclair, W. J. 1915 A, 77, 83, fig. 8. Pliocene (Snake Creek); Nebraska.
Stock, C. 1924 B, 54 (Tetrabelodon). Upper Miocene (Mint Canyon); California.
1925 A, 18 (Tetrabelodon?). Lower Pliocene (Rattlesnake); Oregon.
1928 D, 43, pl. i, figs. *b-d* (Trilophodon); pl. ii, figs. *a*, *d*; pl. iii, fig. *b*; pl. iv, figs. *a-c* (Trilophodon?).
Young and Cooper 1927 A, 1 (Trilophodon. This genus?). Pliocene.

ELEPHANTINÆ Gill.

Gill, T. 1872 B, 13, 90.
Dietrich, W. O. 1919 A, 55 ("elephantiden").
Eaton, J. E. 1928 A, 133 ("mammoths").
Freudenberg, W. 1922 A, 38 (Elephantidæ).
Gawrilenko, A. 1924 A, 233 ("elephanten").
Hay, O. P. 1924 D, 376 ("elephants").
1927 E, 77 ("elephants").
Lull, R. S. 1921 B, 160 (Mammotinæ).
Osborn, H. F. 1906 C, 776.
1909 D, 86, 87.
1910 B, 558.
1918 C, 135.
1921 A, 1 (Loxodontinæ, Mammontinæ, Elephantinæ).
Osborn, H. F. 1921 E, 234 (Euelephantinæ, Mammontinæ, Elephantinæ).
1922 B, 1 (Mammontinæ).
1924 G, 1, 2 (Elephantinæ, Mammontinæ, Loxodontinæ).
1925 A, 3 ("elephants").
Scott, W. B. 1928 A, 330 ("elephants").
Stefanescu, S. 1918 A, 739 ("elephants").
1919 F, 148 ("elephants").
1921 A, 929 ("elephants").
1921 B, 1054 ("elephants").
1921 C, 1516 ("elephants").
1921 D, 1669 ("elephants").
Weber and Abel 1928 A, 471.

ELEPHAS Linnæus. Type *E. maximus* Linnæus.

Hay, O. P. 1902 A, 712.
Abel, O. 1909 D, (226).
1910 B, (186) ("mammuth").
1912 F, 242 ("elephant").
1913 B, 750.
1914 C, 305, fig. 1.
1919 A, 828.
1920 A, 439, fig. 667.
1921 A, 259 ("elefanten").
1925 A, 268.
Adams, C. C. 1905 A, 54 ("mammoth").
Adloff, P. 1910 B, 232 ("elefant").
1920 B, 534.
Aichel, O. 1918 A, 502.
Aichel, O. 1918 B, 1-109, pls. i-v; text-figs. 5-20.
1926 A, 43.
Airaghi, C. 1917 A, 195.
Altmann, F. 1925 A, 108.
Ameghino, F. 1889 A, 1011.
1902 A, 41.
1902 B, 9.
1902 D, 427.
Anderson, R. J. 1902 A, 1121, fig. 16.
1905 A, 333, fig. 28.
1909 A, 745.
1912 A, 918.
1912 B, 428 ("elephant").
1914 A, 534 ("elephant").

Andrews, C. W. 1903 E, 226.
1904 A, 111.
1907 C, 302.
1908 A, 399.
1908 D, figs. 4, 6, 23-31.
1922 B, 35.
1924 A, 307.
Anthony, R. 1912 A ("éléphant").
Arldt, T. 1907 D, 652.
1911 A, 215 ("elefanten").
Baird, S. F. 1876 A, ccviii ("elephants").
Baker, F. C. 1920 A, 458.
Barbour, C. A. 1898 A, 264, fig. 1 ("mammoth").
Beddard, F. E. 1902 A, 218.
Beyer, H. 1908 A ("elefant").
1909 A, 29 ("elefant").
Blanford, W. T. 1876 A, 286.
Boas, J. E. V. 1908 A, 197 ("elefant").
Böker, H. 1927 A, 38.
Bolk, L. 1913 A, 120.
1922 A, 124.
Botti, U. 1901 A, 438.
Boule, M. 1902 B, 913.
Bronn, H. G. 1838 A, 1239, 1307.
1849 A, 703.
Cabrera, A. 1927 A, 441, figs. 1, 2 ("elefante").
Camper, P. 1780 A, 220 ("elephas").
Carnot, A. 1892 A, 1190 ("elephant").
Carus, V. 1875 A, 140.
Carus and Engelmann 1861 A, 1732.
Clark and Sonntag 1926 A, 454, 466.
Cleland, J. 1863 B, 300 ("elephant").
Codrington, T. 1908 A ("elephant").
Cook, H. J. 1927 C, 241 ("Elephas").
Cooper, C. F. 1923 B, 263, figs. 1, 2 ("elephant").
1924 A, 108.
Cope, E. D. 1891 N, 62, 63, 84, figs. 32*b*, 56.
Cummins, W. F. 1893 A, 184 ("elephant").
Cuvier, F. 1825 A, 221, pl. xci ("éléphant").
Cuvier, G. 1803 A, 166 ("éléphant").
1805 A.
1806 D ("éléphant").
Dall and Harris 1892 A, 284.
Dana, J. D. 1863 C, 336 ("elephant").
Deninger, K. 1913 A, 295 ("elefant").
Depéret, C. 1907 B.
1923 A, 520 ("éléphants").
Depéret and Mayet 1923 A.
Desor, E. 1855 A, 218 ("elephants").
Diener, C. 1912 A, 216 ("elefanten").
Dietrich, W. O. 1913 A, 49.
1916 A.
1919 A, 47, figs. 3, 5.
1921 A, 595.
Dollo, L. 1889 I, 682.
Doran, A. H. G. 1878 A, 430, pl. lx.
Eales, N. B. 1926 A, 491, pls. i-xii.
1926 B, 361 ("elefant").
Eichwald, E. 1835 A, 695.
Eimer, G. H. T. 1901 A, 257 ("elefant").
Ewart, J. C. 1904 B, 143 ("elephant").
Fairchild, H. L. 1887 A, 20.
Falconer, H. 1857 C, 81.
1863 A, 56 (Euelephas).
Fischer, E. 1903 A, 695, 718.
Fischer, J. B. 1829 A, 404.
Foote, J. S. 1916 A, 109, 130, pls. xii, xiii.
Foster, J. W. 1857 A, 361.
Fraas, E. 1900 A, 38.
Frech, F. 1907 A, 306 ("elephante").
Freudenberg, W. 1926 A, 68.
Gaudry, A. 1906 A, 8 ("éléphants").
Gawrilenko, A. 1924 A, 223, fig. 3.
Geikie, J. 1914 A, 321.
Geinitz, E. 1903 A.
1904 A.
Gervais, P. 1852 A, 35.
1859 A, 61.
Giebel, C. G. 1855 A, 78, pl. xxxiv.
1883 A, pls. xxxv, xl, xli.
Goethe and Alton 1824 A, 325, pls. xxxiii-xxxv.
Gottlieb, H. 1914 A, 190.
Grant, E. 1842 A, 771.
Gregory, W. K. 1903 A, 387.
1912 F, 275, fig. 1 ("elephant").
1920 A, 183, 244, fig. 146.
Haworth, E. 1897 A, 280 ("elephants").
Hay, O. P. 1910 D, 372 ("elephant").
1912 D, 716.
1914 A, 392.
1919 A, 311 ("elephants").
1923 A, 484.
1925 D, 245.
1928 B, 238 ("elephants").
Hay, R. 1896 A, 34.
Heilprin, A. 1887 A, 417 ("elephant").
Herz, O. 1902 A, 137, pls. i-vii.
Hoernes, R. 1886 A, 686.
1912 A, 663.
Holmes, F. S. 1870 A, 17, 31 ("elephant").
Hoyer and Babik 1924 A, 455.
Hue, E. 1907 A, pls. l, lxxxv, xcix, cxiii, cxxxvii, cxxxviii, cl, clxv, clxxviii.
Huxley, T. H. 1863 E, 555.
1863 F, 608, fig. 56.
1870 F, 542.
1881 A, 453 ("elephants").
Kampfen, P. N. 1905 A, 619, fig. 80.
Kingsley, J. S. 1925 A, 193, 217, 300, figs. 229, 323 ("elephant").
Knight, W. C. 1903 A, 828.
Knottnerus-Meyer, T. 1907 A, 101.
Kollmann, J. 1884 A, 184 ("elephanten").
Köstlin, O. 1844 A.
Kunz, G. F. 1916 A, 516.
Laloy, L. 1907 A, 585 ("elephant").
Larger, R. 1913 A, 708 ("elephants").
Lartet, E. 1859 A, 469, 498.
Lataste, F. 1887 A, 270 ("éléphant").
Leche, W. 1887 A, pl. xcvi.
1900 A, 1031.
Le Damany, P. 1903 B, 275 ("éléphant").
1903 G, 141, fig. 6 ("éléphant").
1906 A, 54, figs. 11, 12 ("éléphant").
1906 B, 164 ("éléphant").
Leunis and Ludwig 1883 A, 233.
Leuthardt, F. 1891 A, 95.
Lindgren, W. 1911 A, 52.
Lönnberg, E. 1907 B, 56, figs. 1-3 ("elefant").
Lull, R. S. 1908 A, 195.
1909 A, 641 ("elephant").
1917 B, 301, 583, 592, fig. 191.
Lydekker, R. 1903 E, 169, fig. 1 ("elephants").
1907 B, 68.
1907 E, 676.

Macloskie, G. 1884 A, 215, fig. 115.
Maddren, A. G. 1905 A.
Martins, C. 1857 A, 68, 91 ("éléphant").
Matsumoto, H. 1923 A, 121.
  1926 F, 43 (Elephas, Parelephas); 45 (Archidiskodon).
Matthew, W. D. 1915 A, 187, 255.
  1915 B, 6, 24.
  1915 K, 403.
  1916 G, 485, fig. ("Elephas").
  1923 F, 520.
  1924 E, 748.
Mayer, C. 1847 A, 1-88.
Mayet and Roman 1923 A.
Meckel, J. F. 1825 A.
Merriam, J. C. 1906 D, 249.
  1917 A.
Meunier, S. 1903 A, 776 ("éléphants").
Meyer, H. 1867 C, 785.
Miller and Dieck 1900 A, 385, figs. 1-4.
Mitchell, W. 1904 A, 284, figs. 1-34.
Neuville, H. 1919 A, 193 ("elephant").
Newton, E. T. 1891 A, 45.
Osborn, H. F. 1905 D, 315 ("elephants").
  1907 G, 188.
  1907 K, 815 ("elephants").
  1909 D, 82, 83, 87.
  1909 E, 140 ("elephant").
  1910 A, 213.
  1910 B, 613.
  1912 G, 250.
  1916 B, 538.
  1917 B, 269, 270, fig.
  1924 G, 1, 4, 5 (Elephas, Mammonteus; Parelephas, type E. jeffersonii=E. boreus).
  1925 A, 6 (Elephas, Parelephas); 19 (Mammut).
  1925 B, 28, 32 (Elephas, Mammonteus, Archidiskodon, Parelephas).
  1925 D, 532 (Archidiskodon).
  1926 A, 188 ("elephant").
  1928 A, 672 (Elephas, Archidiskodon).
Owen, R. 1845 E, 125 ("elephant").
  1868 A, 878, 879, figs. 289-292.
Palmer, T. S. 1904 A, 255, 943.
Pander and Alton 1821 B, 3, pls. i, ii ("elephant").
Paulli, S. 1900 A, 235, fig. 44.
Pavlow, M. 1909 A, 171.
  1910 A.
Petronievics, B. 1921 A, 102.
Pilgrim, G. E. 1913 A, 295.
Pohle, H. 1921 A, 116.
Pohlig, H. 1892 B, 233 (List of nominal species).
Pompeckj, J. F. 1905 A, 48.
Pontier, G. 1911 A, 463.
Retterer, E. 1919 D, 740 ("éléphants").
Retzius, A. 1837 A, 488.
  1849 A, 654.
Reynolds, S. H. 1897 A, 434, 474, figs. 96, 97.
Röse, C. 1892 F, 403 ("elephanten").
Rogers, A. F. 1924 A, 544 ("elephant").
Rogers, H. D. 1844 A, 258 ("elephant").
Ruge, G. 1906 A, 496, figs. 1-3.
Rutland, J. 1901 A, 21032 ("mammoths").
Schlesinger, G. 1912 A.
Schlesinger, G. 1916 A, 215.
Schlosser, M. 1911 A, 136.
Schmidt, E. 1872 A, 233, 237 ("elephanten").
Schmidtgen, O. 1926 A, 62, figs. 1-3.
Scott, W. B. 1913 A, 437, 680.
  1916 A, 118, 120 ("elephants").
Seeley, H. G. 1872 A, 278 ("elephant").
Shimek, B. 1908 A, 923.
Shumard, B. F. 1863 A, 141.
Smith, G. E. 1915 A, 340, fig. 1; 425, 501 ("elephant").
  1916 A, 593, fig. 2 ("elephant").
  1916 B, xx ("elephant").
Smith and Packard 1919 A, 102, 104 ("mammoth").
Soergel, W. 1913 A, 1.
  1914 A, 20.
  1915 A, 179.
  1915 B, 1-65.
  1921 A.
Spencer, J. W. 1898 A, 27 ("elephant").
Spinden, H. J. 1916 A, 592 ("elephant"), fig. 1.
Stefanescu, S. 1913 A, 611 ("éléphant").
  1913 B, 735.
  1913 C, 883.
  1914 A, 1043 ("éléphants").
  1915 A, 100 ("éléphants").
  1918 A, 739.
  1919 A, 97.
  1919 B, 464.
  1919 C, 906.
  1919 D, 1208.
  1919 E, 1329.
  1920 A, 811.
  1921 B, 1056.
  1921 D, 1669.
Steinman, G. 1907 A, 484.
Strecker, C. 1887 A, 310 ("elephant").
Taschenberg, O. 1899 A, 4542.
Thomson, A. 1902 A, 104 ("elephant").
Tims, H. W. M. 1903 A, 144, fig. 4b.
  1905 B, 1787, fig. 6.
Tozzer, A. M. 1916 A, 592 ("elephant").
Trouessart, E. L. 1892 A, 189.
  1905 A, 602.
Troxell, E. L. 1915 B, 479.
Upham, W. 1902 A, 149 ("mammoth").
Virchow, H. 1910 B, 77 ("elefant").
  1910 C, 131 ("elefant").
  1910 D, 251 ("elefant").
Wallace, A. R. 1876 A, I, 138; II, 227.
Weber, M. 1904 A, 723, 724 (Elephas); 723 (Euelephas); 723, 725 (Loxodon); 717, figs. 509, 513 (E. indicus).
Weber and Abel 1928 A, xviii, 446, 458, 471, figs. 277-286.
Weber and Burlet 1927 A, figs. 35, 115.
Wiele, C. van de 1903 A, 593 ("mammouth").
Wilder, B. 1872 B, 315, 320.
Williston, S. W. 1902 J, 196.
Woodward, A. S. 1903 A, 257 ("mammoth").
  1923 C, 55.
Woodward, H. 1904 B, 158.
Wright, G. F. 1908 A, 34 ("elephants").
Wüst, E. 1901 A, 246.
Ziegler, H. E. 1924 A, lx ("elephanten").
Zietzschmann, O. 1917 A, 442, pl. xxv.

Zittel and Schlosser 1911 A, 539.
1923 A, 625, 632, figs. 768.

Elephas boreus Hay.

Unless otherwise indicated the authors, as cited, call this species *Elephas primigenius*. Some of the identifications may be erroneous.

Hay, O. P. 1922 D, 5, pl. ii, figs. 2, 3; text-figs. 5, 6 (E. boreus).
Abel, O. 1908 D, (212) (E. columbi).
1912 F, 574, fig. 445 (E. columbi).
1914 A, 198, 204, figs. 156, 157, 166, 171 (E. columbi).
1919 A, 797, fig. 601 (E. columbi).
1922 C, 22, fig. 22 (E. columbi).
1925 A, 282, 290, figs. 209-211, 218 (E. primigenius); 288, fig. 216 (E. columbi).
Anderson, N. C. 1905 A ("mammoth").
Andrews, C. W. 1922 B, 34; 43 (E. jeffersoni).
Anonymous 1907 A, 5 (E. columbi).
Arsene and Marty 1923 A, 5 (E. primigenius. This species?).
Baker, F. C. 1920 A, 458 (in part).
Barbour, E. H. 1903 A, 172, fig. 107 ("mammoth").
1914 B, 181.
1914 C, 222.
1915 B, 129.
1924 A, 11 (E. jeffersoni columbi).
1925 A, 21 (E. jeffersoni columbi; E. primigenius).
1925 D, 111 (Parelephas jeffersoni).
Calvin, S. 1897 A, 21 (E. primigenius, E. americanus).
1909 B, 351, pl. xxiii, fig. 2.
1911 A, 211, pl. xx.
Carman, J. E. 1917 A, 410.
Cook, H. J. 1928 C, 44, figs. (E. jeffersoni?).
Cope, E. D. 1895 G, 599.
Crook, A. R. 1926 A, 13 (E. primigenius boreus).
1927 A, 24, fig. (E. primigenius).
1927 B, 288-299, figs. (E. primigenius boreus).
DeKay, J. E. 1842 C, 101, pl. xxxii, fig. 2 (E. americanus).
Dietrich, W. O. 1912 A, 74 (E. columbi).
1916 A, 50, 76, 77 (E. columbi).
Diller, J. S. 1906 A, 6, 11 ("elephants." This species?).
Dumble, E. T. 1894 A, 564. (This species?).
Felix and Lenk 1891 A, 126, 127, 131. (This species?).
Fenneman, N. M. 1916 A, 158.
Fischer, J. B. 1829 A.
Freudenberg, W. 1922 A, 39.
Frick, C. 1926 B, 165 (E. columbi).
Gass and Pratt 1883 A, 177.
Gervais, P. 1859 A, 365.
Gidley, J. W. 1926 C, 484 (E. primigenius?).
1927 A, 48.
Gregory, W. K. 1907 A, 5 (E. columbi).
Hartnagel and Bishop 1921 A, 70, 71 (E. columbi, E. jeffersonii); 79, pl. xvii (E. boreus=E. jeffersonii).
Haug, E. 1911 A, 1873, 1887 (E. primigenius).
Hay, O. P. 1887 A, 53, 54 ("elephant").
1909 G, 893 (E. primigenius, E. columbi).
Hay, O. P. 1912 D, 718, figs. 63, 64.
1914 A, 26, 34, 74, 395, 404, 406, pl. liv, fig. 6; pl. lv, fig. 2; pl. lvi, fig. 2; pl. lviii, figs. 2, 3; text-figs. 122, 133.
1918 B, 10.
1918 C, 346.
1920 A, 361 ("elephants").
1920 B, 92, 136, pl. iii, fig. 16; pl. ix, figs. 1-7; pl. x, figs. 3-7; pl. xi, figs. 1-6.
1922 A, 446.
1922 D, 5, pl. ii, figs. 2, 3; text-figs. 5, 6 (E. boreus).
1922 F, 98.
1923 A, 484.
1924 D, 376 (E. boreus, E. primigenius).
1925 A, 5 (E. boreus).
1926 B, 159 (E. boreus).
1926 E, 388, 390 (E. boreus).
1927 D, 302, 305.
1928 B, 237 (E. boreus).
1928 C, 425, 427 (E. boreus).
Hollister, N. 1922 A, 271 (E. borealis).
Ingalls, A. G. 1926 A, 290 (Parelephas jeffersonii).
Kermode, F. 1916 A, 21.
Lacépède and Cuvier 1808 A, 332 ("mammouth").
Lane, A. C. 1906 A, 553 ("mammoth").
Le Conte, J. 1882 B, 2.
Louderback, G. D. 1907 A, 209, figs. ("mammoth").
Lucas, F. A. 1902 A, 554 ("mammoth").
1906 B, 157, 158.
1908 B, 443.
Lull, R. S. 1908 A, 197 (in part).
1917 B, 601 (in part).
Maddren, A. G. 1905 B, 746 (E. jacksoni. This species?).
Martin, H. T. 1924 A, 274 (E. primigenius. This species?).
Mather, W. W. 1838 A, 362, fig. B. (E. primogeneus).
Matsumoto, H. 1926 F, 43 (E. jeffersoni).
Matthew, W. D. 1907 C, 5 (E. columbi).
1915 B, 6, 10, fig. 3?.
1918 A, 201.
1921 G, 661 (E. jacksoni).
1925 A, 97 (E. jeffersonii. This species?).
Merriam and Stock 1925 A, 10 (E. primigenius. This species?).
Newcombe, C. F. 1915 A, 32, 33.
Osborn, H. F. 1905 H, 226 (in part).
1905 I, 111, pl. xii, fig. 1 ?(in part).
1907 K, 834, fig. (E. columbi).
1909 D, 125 (in part).
1910 A, 204.
1910 B, 455, fig. 196 (E. columbi).
1912 G, 251.
1915 C, 263 (E. columbi).
1918 C, 135 (Euelephas primigenius).
1921 A, 14, 15 (in part).
1922 B, 11, figs. 10, 11 (E. jeffersonii).
1923 A, 21 (E. jeffersonii).
1924 G, 2, fig. 1 [E. (Parelephas) jeffersonii].
1925 A, 19, 22, 23, frontispiece (Parelephas jeffersonii).
1925 B, 29, 32, fig. 3 (Parelephas jeffersonii).

Osborn, H. F. 1925 D, 539 (Parelephas jeffersonii).
Pratt, W. H. 1876 A, 98.
Scharff, R. F. 1911 A, 78 (in part).
Schlesinger, G. 1912 A, 174 (E. columbi).
Sellards, E. H. 1919 A, 74 ("elephant").
Shimek, B. 1910 A, 138, 139.
    1910 B, 316.
Smith, B. 1914 B, 68.
Stauffer, C. 1926 A, 1 (E. boreus).
Sternberg, C. H. 1898 B, 169.
Stock, C. 1925 A, 113 (E. primigenius. This species?).
Warren, J. C. 1853 A, 377.
Woodward, A. S. 1910 C, 12 (E. columbi).
Zittel and Schlosser 1923 A, 632 (E. jeffersoni).
    Pleistocene; Ohio, Indiana, Illinois, Michigan, Arizona, Nevada, New Mexico, Idaho, Oregon, South Dakota.

Elephas boreus progressus (Osborn).

Osborn, H. F. 1924 G, 7 (Parelephas jeffersonii progressus).
    1925 B, 32 (Parelephas jeffersonii progressus).
    Pleistocene (Upper?); Ohio.

Elephas columbi Falconer.

Hay, O. P. 1902 A, 713.
Abbott, C. C. 1881 A, 485 (E. americanus. This species?).
Abel, O. 1914 A, 204, fig. 172.
    1922 C, 23, fig. 23.
    1926 B, 81.
Airaghi, C. 1917 A, 197-199.
Allen, G. M. 1926 A, 454.
Ameghino, F. 1897 B, 264.
Andrews, C. W. 1908 D, 33.
    1922 B, 34.
Anonymous 1907 A, 5.
    1910 A, 198 (This species?).
Antevs, E. 1925 A, 75 (This species?).
Arsène and Marty 1923 A, 5, 6, 14.
Aughey, S. 1876 A, 254 (E. americanus. This species?).
Baker, F. C. 1920 A, 458.
Balch, E. S. 1917 A, 481.
Barbour, E. H. 1913 A, 58, pls. i-ii; text-fig. 1.
    1914 A, 181.
    1914 C, 222.
    1915 B, 129.
    1925 D, 95, 96, 107, figs. 58, 61.
    1927 A, 133.
Beddard. F. E. 1902 A, 226 (E. columbianus).
Billings, E. 1863 A, 135, figs. 1-5 (Euelephas jacksoni. Species doubtful).
    1863 B, 475 (Euelephas jacksoni. Species doubtful).
Blake, C. C. 1862 A, 58.
    1862 B, 56, figure.
Blake, W. P. 1866 A, 290 (This species?).
Boule, M. 1923 A, 410.
Bringier, L. 1821 A, 22 ("mammoth." This species?).
Brown, B. 1912 C, 167.
Bryan, K. 1927 A, 35, pl. iv.
Buckley, S. B. 1874 A, 64 ("mammoth." This species).
Cahn, A. R. 1922 A, 23.
Calvin, S. 1909 A, 137.
    1909 B, 351, 355, pl. xxv, fig. 3.
    1910 A, xii ("elephant").
    1911 A, 211, 212 (E. indianapolis, E. mississippiensis).
Carman, J. E. 1917 A, 409.
Chamberlin, R. T. 1916 A, 35 ("columbian elephant").
Clayton, J. E. 1864 A, 171 ("elephant." This species?).
Coleman, A. P. 1904 A, 351-353, 364, 366, 367 ("mammoth").
    1905 A, 482 ("mammoth").
Condon, T. 1871 A, 470 ("mammoth").
    1902 A, 154, pl. xxx ("mammoth").
    1910 A, 132, pl. xxx ("mammoth").
Conrad, T. A. 1838 A, x ("elephant." This species?).
Cook, H. J. 1912 D, 45 (This species?).
    1914 A, 47, pl. i.
    1925 A, 460.
    1927 A, 117 ("mammoth").
    1927 C, 247.
Cooper, J. G. 1875 A, 390 (E. americanus).
Cope, E. D. 1869 E, 178.
    1877 K, 25, pl. lxx, fig. 4 (E. primigenius columbi).
    1894 A, 68 (E. primigenius).
Couper, J. H. 1843 A, 33 ("mammoth").
Dall, W. H. 1896 A, 854.
Dall and Harris 1892 A, 264, 266.
Darton, N. H. 1915 A, 20 ("mammoth").
Dawson, J. W. 1863 F, 914 (Euelephas jacksoni. This species?).
    1872 B, 403 (Euelephas jacksonii).
    1872 C, 99 (Euelephas jacksonii).
    1894 D, 3 (E. jacksoni. This species?); 4 (E. columbi?).
Deeley, R. M. 1913 A, 14, tab. ("elephant").
De Gregorio, A. 1916 A, 104.
Deussen, A. 1924 A, 108.
Diener, C. 1912 A, 205.
Digby, B. 1926 A, 30.
Dopp, K. E. 1904 A, 22 ("mammuth." This species?).
Drayton, J. 1802 A, 39, pl., fig. 5 ("elephants"?).
Edwards, A. M. 1866 A, 1, pl. i, figs. 1-5; pl. ii.
Emmons, E. 1852 A, 96 ("elephant").
    1860 A, 242, fig. 207 ("elephant").
Fairchild, H. L. 1916 A, 247 ("mammoth").
Falconer, H. 1857 C, 84 (Euelephas).
    1863 A, 43, 49, pl. i; pl. ii, fig. 1.
Felix and Lenk 1891 A, 126.
Figgins, J. D. 1928 A, 82 ("columbi").
Finlay, G. I. 1916 A, 11.
Foster, J. W. 1873 A, 57 ("elephant").
Frech and Geinitz 1903 A, 34, 36.
Freeman, O. W. 1926 A, 477 (E. primigenius).
Freudenberg, W. 1921 A, 17, 138.
    1922 A, 4, 11, 38, 43, 69, pl. viii, fig. 1; text-fig. 25 (E. columbi); 43 (E. primigenius).
Furlong, E. L. 1904 A, 54 (Elephas, sp.?).
    1906 A, 243 (Elephas, sp.?).
    1925 A, 139 (This species?).

Gawrilenko, A. 1924 A, 226, 234, 239.
Gervais and Ameghino 1880 A, 111 (E. colombi).
Gidley, J. W. 1912 C, 19.
1913, in Matson and Sanford 1913 A, 142.
1915 D, 19 (E. primigenius?); 20 (E. columbi).
1925 A, x ("mammoth").
1926 B, 310 ("mammoth").
1926 D, 240 ("mammoth").
1927 A, 48.
1927 E, 274.
Gidley and Loomis 1926 A, 262 ("mammoth").
Gilbert, J. Z. 1910 B, 46, lower right fig., 48.
Gilmore, C. W. 1908 A, 30.
Gregory, H. E. 1917 A, 82 ("Elephas." This species?).
Gregory, W. K. 1907 A, 5.
Hager, A. D. 1861 A, 934, fig. 339 ("elephant").
Harlan, R. 1842 B, 143 ("elephant").
Hartnagel and Bishop 1921 A, 72, pls. xiv, xv.
Haug, E. 1911 A, 1886, 1887.
Hay, O. P. 1909 G, 893.
1910 D, 374.
1912 B, 7, fig. 3.
1912 D, 734, pls. xxii-xxvi; text-fig. 70.
1914 A, 26, 410, pls. lxi-lxv.
1917 E, 45.
1918 B, 10.
1919 B, 378.
1919 C, 106.
1919 D, 366, 372.
1920 A, 361 ("elephants").
1920 B, 104, 128.
1921 A, 604.
1921 B, 403.
1922 D, 5, text-figs. 9, 10.
1922 F, 97.
1923 A, 484.
1923 B, 116.
1924 D, 376.
1925 C, 32, pl. iv, fig. 5.
1925 D, 242.
1926 B, 154.
1926 C, 2.
1926 E, 390.
1927 C, 280 ("mammoth").
1927 D, 301, 302, 305.
1928 B, 237.
1928 C, 425, 428.
Hay, R. 1890 A, 42 ("Elephas").
Hayden, F. V. 1871 A, 99 (E. americanus. This species?).
Henry, J. 1869 A ("elephant." Mastodon?).
Hitchcock, E. 1861 B, 176 (Elephas primogenius).
Hodge, E. T. 1925 A, x ("mammoth").
Holland, W. J. 1899 A, 233 ("mammoth").
1909 A, 455.
Holmes, F. S. 1860 A, vii ("elephas").
Holmes, W. H. 1903 A, 244, pl. ix (E. primigenius).
1925 A, 257.
Holzinger, J. M. 1885 A, 147 (E. primigenius).
Howorth, H. H. 1893 B, 94.
1905 A, II; 94 ("elephant").
Hrdlička, A. 1918 A, 26.
Jaques, H. E. 1922 A, 66-68, figs. 5b-5c.
Kermode, F. 1916 A, 21.
Kunz, G. F. 1916 A, pl. opp. p. 324, fig. 10.
Lartet, E. 1859 A, 505.
Le Conte, J. 1882 B, 2 (E. americanus).
Lee, W. T. 1907 B, 215.
Lee, Stone, Gale 1915 A, 10.
Leidy, J. 1869 A, 252, 397.
1873 G, 416.
1889 D, 17, pl. iii, figs. 6-9 (E. americanus, or E. columbi).
Lindgren, W. 1901 A, 583, 769.
1911 A, 51 (E. americanus, E. columbi).
Loomis, F. B. 1924 C, 503, 506.
1925 D, 436 ("mammoth").
Louderback, J. D. 1907 A, 205 ("mammoth." This species?).
Lucas, F. A. 1901 A, 307.
1901 I, 354, 356.
1901 J, 181.
1902 A, 554.
1902 B, 247, 267.
1906 B, 158, 159, 165, pls. xxxviii, xxxix, xl.
1908 B, 443.
Lull, R. S. 1908 A, 196, fig. 27.
1909 A, 651, 673, 674, figs. 7, 22.
1914 E, 63, 68, pl. i, fig. 1; pl. ii, fig. 9.
1917 B, 601.
1921 B, 175.
Lydekker, R. 1910 F, 663.
M'Clure, F. 1904 A, 60, fig. (E. primigenius).
McCornack, E. C. 1914 A, 10, 13 ("mammoth").
1920 A, 15, 16 (Elephas); 17 ("mammoth").
MacCurdy, G. G. 1916 A, 61.
1917 A, 261.
McGee, W J 1889 A, 303 ("elephant").
1891 B, 400 ("american elephant," species doubtful).
Mackie, S. J. 1863 G, 475 (Euelephas jacksoni).
Maddren, A. G. 1905 A, 7.
1905 B, 746.
Manigault, G. E. 1887 A, 130 ("elephant").
Mantell, G. A. 1839 A, 150, fig. 26 ("elephant").
Mather, W. W. 1838 A, 362, fig. A (E. jacksoni. Species not determinable).
Matson and Clapp 1909 A, 136, 137.
Matthew, W. D. 1902 F, 318 (E. primigenius columbi).
1915 B, 9, 10, figs. 3, 4.
1915 K, 410 ("columbian mammoth").
1918 A, 201, 227.
Mercer, H. C. 1895 B, 393 ("elephant").
Merriam, J. C. 1901 A, 313 (E. primigenius).
1918 D, 520 (This species?).
Meyer, H. 1872 B, pl. vii, figs. 7, 8.
Miller, B. L. 1912 A, 5 (This species?).
Miller, L. H. 1912 A, 73, 78, 81 (Elephas sp.).
Miller and Stephenson 1912 A, 46, 50, 55 ("elephant").
Mitchell, E. 1828 A, 347 ("elephant." This species?).
Mitchill, S. L. 1826 A, 10 ("elephant").
Newberry, J. S. 1873 F, 87 ("elephant").
Osborn, H. F. 1903 E, 249.
1905 D, 316 ("columbian elephant").
1905 E, 931.
1905 H, 226.
1905 I, 110, 111, pl. xii, fig. 2.
1907 B, 255, fig. 1.

Osborn, H. F. 1909 D, 125.
1910 B, 613, figs. 189, 190.
1918 C, 135 (Euelephas).
1921 A, 14.
1921 E, 233.
1922 B, 2, 11, figs. 1-3 (E. columbi); 13, figs. 11-12 (E. jeffersonii).
1924 H, 3, fig. D (Parelephas jeffersonii).
1928 A, 673 (Archidiskodon).
Pavlow, M. 1909 A, 174.
1910 A, 28.
Perkins, H. C. 1842 B, 57 ("elephant." This species?).
Perkins, G. H. 1910 B, 8 ("elephant").
Pohlig, H. 1889 A, 247, fig. 107.
Reagan, A. B. 1903 A, 88 (E. primigenius columbia); 89 (E. primigenius).
Rhoads, S. N. 1903 A, 236.
Richardson, G. B. 1907 A, 32.
1909 A, 44.
1915 A, 9.
Riggs, E. S. 1915 A, 393, pl. lxviii.
Rio, A. 1918 A, 367.
Russell, I. C. 1884 A, 460 ("elephant").
1885 A, 238 ("elephant or mastodon").
Scharff, R. F. 1911 A, 83, 87, 153.
Schlesinger, G. 1912 A.
Schmidt, E. 1872 A, 251, 254 ("Elephas").
Schuchert, C. 1915 A, 956.
Scott, W. B. 1913 A, 195, 197, 198, 427, figs. 113, 114.
Sellards, E. H. 1915 C, 8.
1915 D, 76, 80.
1916 B, 102.
1916 C, 130, 139, 140, 150, 158, pl. xxv, fig. 1.
1916 D, 616.
1916 E, 16.
1916 F, 7, 9.
1917 A, 250 ("elephant").
1919 A, 73 ("Elephas").
Shimek, B. 1902 A, 285 (E. primigenius).
1910 A, 135, 137.
1910 B, 310, 323.
Shuler, E. W. 1923 A, 333 ("mammoth").
Soergel, W. 1913 A, 89.
1915 A, 278, 283.
1921 A, 1-100, pls. i-viii; text-figs. 3-5.
Spencer, J. W. 1883 A, 308 (Euelephas jacksoni).
1895 A. 137.
Stauffer, C. 1924 A, 40, 41.
1926 A, 1 (E. columbi, E. jeffersonii).
Stefano, G. 1915 A, 209, pl. xi, fig. 1.
Stephenson, L. W. 1912 B, 268 ("elephant").
Sternberg, C. H. 1898 B, 169 (E. primigenius).
1903 A, 511.
1903 D, 89 ("elephant").
1907 B, 971.
1909 C, 260 ("columbian mammoth").
Stock, C. 1925 A, 195, 201.
Thornton, T. R. 1900 A, 198 ("mammoth").
Trouessart, E. L. 1913 A, 727.
Troxell, E. L. 1915 A, 616, 636 (This species?).
Udden, J. A. 1902 A, 428 (E. americanus. This species?).
1905 A, 47-57 (E. americanus. This species?).
Veatch, A. C. 1906 A, 51 ("Elephas").
Villada, M. M. 1903 A, 442.
Virlet d'Aoust, T. 1865 A, 24.
Ward, H. A. 1866 A, 37 (E. americanus).
Whitney, J. D. 1879 B, 261, 263, 275, 281 ("elephants." This species?).
Williston, S. W. 1902 M, 315 (E. primigenius).
1905 A, 335 (E. primigenius, E. columbi).
Wilson, T. 1901 A, 299.
Winchell, A. 1861 A, 132 ("elephant").
Woodward, A. S. 1923 C, 55.
Wright, F. B. 1903 A, 243.
Wyman, J. 1875 A, 31, 42 ("elephant").
Yates, L. G. 1903 A, 92, 101, 106, pl. x (E. americanus. This species?).
Zittel and Schlosser 1923 A, 632, 680, 681.
Pleistocene; greater part of North America.

Elephas columbi falconeri Freudenberg.

Freudenberg, W. 1922 A, 40, 51, 53, pl. viii, fig. 1; text-fig. 20.
Hay, O. P. 1925 C, 32.
Villada, M. M. 1903 A, 451, pl. viii (E. columbi).
Pleistocene; Mexico.

Elephas columbi felicis Freudenberg.

Freudenberg, W. 1922 A, 38, 47, pl. viii, fig. 3; text-figs. 18, 23.
Hay, O. P. 1925 C, 32, 36 (E. columbi, E. primigenius columbi).
Pleistocene; Mexico.

Elephas columbi silvestris Freudenberg.

Freudenberg, W. 1922 A, 46, 52, fig. 19.
Hay, O. P. 1925 C, 32.
Pleistocene; Mexico.

Elephas eellsi Hay.

Hay, O. P. 1926 B, 155, with plate.
1927 D, 38, 261.
Pleistocene; Washington.

Elephas exilis Stock and Furlong.

Stock and Furlong 1928 B, 140.
Pleistocene (Early); California.

Elephas francisi Hay.

Hay, O. P. 1922 D, 6, pls. iii, iv; text-figs. 7, 8.
1924 D, 376.
Pleistocene (Early); Texas.

Elephas haroldcooki Hay.

Hay, O. P. 1928, in Hay and Cook 1928 A, 33.
Cook, H. J. 1927 A, 117 ("mammoth").
Hay, O. P. 1928 C, 425, 426.
Spier, L. 1928 A, 161 ("primitive elephant").
Pleistocene (Aftonian); Oklahoma.

Elephas hayi Barbour.

Barbour, E. H. 1915 B, 129, figs. 1, 3, 5.
Hay, O. P. 1924 D, 376.
Barbour, E. H. 1925 A, 22, fig. 11.
Kunz, G. F. 1916 A, pl. opp. p. 324, fig. 9.
Osborn, H. F. 1922 E, 282.
Pleistocene (Aftonian); Nebraska.

Elephas imperator Leidy.

Leidy, J. 1858 B, 10.
Hay, O. P. 1902 A, 713 (E. columbi, in part).

Abel, O. 1914 A, 207.
1926 B, 238 (Elephas, Archidiscodon).
Allen, G. M. 1926 A, 455.
Andrews, C. W. 1922 B, 43.
Archer, W. J. 1918 B, 13 ("imperial elephant").
Baker, F. C. 1920 A, 458.
Barbour, E. H. 1914 B, 181.
1914 C, 219, 222, fig. 5.
1915 B, 129, figs. 2, 4, 5.
1916 B, 253, fig. 5.
1925 A, 21.
1925 D, 111 (Archidiskodon).
1926 A, 119, fig. 88 (Archidiskodon).
Blake, C. C. 1857 A, 186, fig.
1861 A, 470 (E. texianus).
1862 A, 57, pl. iv (E. texianus).
1863 B, 56 (E. texanius); 60 (E. imperator).
Blake, W. P. 1856 A, 395 (E. primogenius).
Branner, J. C. 1909 A, 7 (E. columbi).
Cahn, A. R. 1922 A, 23.
Calvin, S. 1909 A, 137.
1909 B, 351, pl. xxiv, xxv, figs. 1, 7.
1910 A, xii ("elephant").
1911 A, 212.
Chamberlin, R. T. 1917 A, 672 ("proboscidian").
Chamberlin, T. C. 1919 A, 316.
De Gregorio, A. 1916 A, 104.
Deussen, A. 1924 A, 20, 108.
Diener, C. 1912 A, 217.
Dietrich, W. O. 1912 A, 64, 74, fig. 10.
Digby, B. 1926 A, 31, 34.
Falconer, H. 1863 A, 46, 52 (E. texianus).
Freudenberg, W. 1921 A, 138.
1922 A, 39 (E. texanus, E. imperator); 55, 60, fig. 22 (E. columbi imperator); 44, 65, 70, figs. 26, 28 (E. imperator); 45, 47 (E. americæ).
Gawrilenko, A. 1924 A, 234.
Gidley, J. W. 1903 C, 618, 624.
1912 C, 19.
1926 B, 310 ("mammoth").
1926 D, 240 ("mammoth").
1926 I, 28 ("mammoth").
1927 A, 48 ("mammoth").
1927 E, 274. (This species?).
Gidley and Loomis 1926 A, 262 ("mammoth").
Gilbert, J. Z. 1910 B, 25 ("elephant").
Haug, E. 1911 A, 1886.
Hay, O. P. 1914 A, 26, 421, pls. lxvi-lxvii (E. imperator); 413, pl. lxi, figs. 7, 8 (E. columbi).
1916 E, 54.
1917 D, 39 (This species?).
1918 B, 9, seq.
1919 A, 311.
1919 C, 103, pl. xxvi, fig. 1.
1919 D, 361, 362, 372.
1920 B, 128.
1921 B, 403.
1922 A, 446.
1922 D, 6, text-figs. 3, 4.
1922 F, 97.
1923 A, 484.
1924 B, 259, 260.
1924 D, 376 (E. imperator); 92, 93 (E. texianus).
Hay, O. P. 1925 C, 22, 32, 35, 37, pl. iii, fig. 3; pl. iv, fig. 4 (E. imperator, E. columbi imperator).
1926 B, 159.
1926 E, 388, 390.
1926 F, 426.
1926 G, 128, 131.
1927 C, 280, 281 ("mammoth").
1927 D, 301, 302, 305.
1928 B, 238.
1928 C, 423, 425, 426.
Hayden, F. V. 1858 B, 157.
1872 A, 48.
Hill, R. T. 1901 A, 356 (Mastodon americanus).
Holmes, W. H. 1903 A, 244, pls. viii, ix.
1918 A, 562.
Ingalls, A. G. 1926 A, 290, fig. (Archidiskodon).
Kunz, G. F. 1916 A, 516, figs.
Lartet, E. 1859 A, 500, 505.
Lee, Stone, Gale 1915 A, 10.
Leidy, J. 1869 A, 252, 254, 398, pl. xxv, fig. 3.
Lucas, F. A. 1902 A, 554.
1902 B, 247.
1906 A, 152.
1907 B, 837.
1908 B, 443.
Lull, R. S. 1908 A, 196, fig. 23.
1909 A, 662, 673, fig. 21.
1914 E, 65, 68, pl. ii, fig. 8.
1917 A, 475.
1917 B, 53, 600, fig. 207.
1921 B, 159.
Lydekker, R. 1910 F, 663.
Maddren, A. G. 1905 B, 746.
Matthew, W. D. 1915 B, 11.
1918 A, 227.
Matthew and Cook 1909 A, 361.
Merriam, J. C. 1908 D, 473 ("mammoth").
1915 G, 101 ("elephant").
Merriam and Stock 1925 A, 11 (This species?).
Merrill, G. P. 1907 A, 35 (No. 185, E. columbi); (No. 189, E. imperator).
Osborn, H. F. 1903 E, 249 ("imperial mammoth").
1903 I, 978 (E. imperiales).
1905 D, 316.
1905 E, 931.
1905 H, 226.
1905 I, 111, pl. xii, fig. 3; pls. xiii, xiv.
1909 D, 125.
1910 B, 613, fig. 189.
1915 C, 263.
1918 A, 32.
1918 C, 135 (Euelephas).
1921 A, 14, 15 (in part).
1921 E, 233.
1922 B, 3, figs. 4-6.
1924 G, 1 (Archidiskon).
1925 A, 8, 19, 23, fig. (Archidiskodon).
1925 B, 28, 31, fig. 3 (Archidiskodon, Elephas).
1925 D, 528, 531, 532, figs. (Archidiskodon).
1928 A, 673 (Archidiskodon).
Pavlow, M. 1909 A, 174.
1910 A, 28.
Peterson, O. A. 1928 A, 119, text-fig. 23 (Parelephas washingtoni).

Pohlig, H. 1889 A, 247, 248 (E. imperator?).
Rio, A. 1918 A, 366, pls. i-v (E. primigenius. This species?).
Scharff, R. F. 1911 A, 87, 153.
Schlesinger, A. 1912 A.
Schuchert, C. 1915 A, 958.
Schuchert and Levene 1927 A, 352, fig.
Scott, W. B. 1913 A, 199, 427.
Sellards, E. H. 1915 C, 8 ("imperial elephant").
1915 D, 76 ("imperial elephant"); 112, fig. 46 (E. columbi var.).
Shimek, B. 1910 A, 131, 134, 135, 138.
1910 B, 316, 323, pl. xxvi, fig. 1.
Soergel, W. 1915 A, 278, 283.
1921 A, 30, 60.
Stefano, G. 1915 A, 209, pl. xi, figs. 2, 3.
Sternberg, W. 1909 C, 268, fig. 44 ("columbian elephant").
Stock, C. 1925 A, 30 (This species?).
Stock and Furlong 1928 B, 140.
Stremme, H. 1911 A, 88.
Swarth, H. S. 1915 A, 27, figs. 15, 16.
Weber and Abel 1928 A, 473.
Wyman, L. E. 1922 A, 15, figs. 3, 6-9.
1927 A, 86, fig. ("elephant").
Yates, L. G. 1903 A, 114, pl. xi (E. americanus?).
Zittel and Schlosser 1923 A, 632, 680.
Pleistocene (Early); western half and southern border of United States; Mexico.

Elephas maibeni Barbour.

Barbour, E. H. 1925 D, 95-111, figs. 58-60, 63-70, 72-87.
1926 A, 119, fig. 88 (Archidiskodon).
Pleistocene (Loess); Nebraska.

Elephas primigenius Blumenbach.

Blumenbach, J. F. 1799, Handb. Naturges., ed. vi, 697.
Cuvier's name *Elephas mammonteus* (Cuvier, G, 1799 A, p. 21) is antedated by that of Blumenbach.
Hay, O. P. 1902 A, 713 (in part).
Abel, O. 1912 F, 683 ("mammut").
1913 B, 750.
1914 B, 22 ("mammut").
1914 C, 306 ("mammut").
1919 A, 821, 824, 828, fig. 627.
1920 A, 442, figs. 673, 674, 677.
1922 C, 3, figs. 1, 2, 6, 8-14, 16-18, 21, 25.
Adams, M. F. 1807 A, 141-153 ("mammoth").
Adelung, N. 1901 A ("mammut").
Airaghi, C. 1917 A, 195, 234, pl. xv.
Allen, H. T. 1887 A, 99 ("mammoth").
Andrews, C. W. 1907 C, 303.
1908 D, 33, fig. 28.
1922 B, 42, fig. 29.
1923 C, 322, pl. x.
Anonymous 1903 A, 390, fig. ("mammoth").
Arldt, T. 1907 D, 652.
Barbour, E. H. 1925 A, 21.
1925 D, 111 (Mammonteus).
Beaumont, E. 1872 A, 1282.
Beddard, F. E. 1902 A, 226.
Beechey, F. W. 1831 A, 257, 322, 324 ("mammoth").
Billings, E. 1856 B, 379 (in part).
Blake, C. C. 1861 A, 470 (in part).
1863 B, 56, 58 (in part).
Boule, M. 1913 A ("mammouth").
1923 A, 496 ("mammoth").
Brandes, G. 1900 A, 103 ("mammuth").
Brandt, A. 1866 D, 1-41, pl. i (E. mamonteus seu primigenius).
1866 E, 361 ("mammuth").
1907 A, 301, figs. 1-4.
Brandt and Woldrich 1887 A, 95.
Breyne, C. 1738 A, 128, pls. i-iii ("mammoth").
Cantwell, J. C. 1884 A, 552 ("mammoth").
1887 A, 47 ("mammoth").
Capitan and Breuil 1901 A, 1038.
Clinton, D. W. 1815 A, 102 ("elephant").
Collier, A. J. 1902 A, 25-28 ("mammoth").
1903 A, 43 ("mammoth").
1906 A, 33.
1908 A, 86-93 ("mammoth").
Cope, E. D. 1891 N, 84, fig. 56.
Coupin, H. 1904 A, 101.
1908 A, 86-93 ("mammoth").
Cuvier, G. 1799 A, 21, pl. v, fig. 2; pl. vi, fig. 1 (E. mammonteus).
1799 B, 90 ("mammouth").
1807 B, 381 ("mammouth").
1825 A, I, 75, pls. ("mammouth," E. primigenius).
Cuvier and Geoffroy St-Hilaire 1796 A, 90 ("éléphan").
Dall, W. H. 1870 A, 238.
1881 A, 108 ("mammoth").
1896 A, 854 ("mammoth").
1901 A, 308 ("mammoth").
Dall and Harris 1892 A, 264, 266.
Dawson, G. M. 1893 A, 84 ("mammoth").
Dawson, J. W. 1894 D, 2, 4.
De Kay, J. E. 1842 C, 100.
Deniker, J. 1913 A, 117.
Depéret and Mayet 1923 A, 176-190.
Desmarest, A. G. 1822 A, 383 (E. primogenius).
Diener, C. 1912 A, 205.
Dietrich, W. O. 1912 A, 42.
1913 A, 67.
1919 A, 57.
Digby, B. 1926 A, 1-217, pls.; text-figs.
Dollo, L. 1889 I, 685.
Eichwald, E. 1835 A, 707, pl. iii (E. mamonteus).
Falconer, H. 1857 C, 81.
1863 A, 43, 55.
Falconer and Cautley 1847 A, pls. i, xiii*a*, xiii*b*.
Falconer and Murchison 1867 A, 1, 19.
Felix, J. 1912 A, 1, figs. 2, 3.
Fischer de Waldheim, G. 1814 A, 319 (E. mammonteus).
1829 A, 285 (E. mammonteus, E. paniscus, E. periboletes, E. pygmæus, E. campylotes).
1829 B, 267 (E. mammonteus).
Fraas, E. 1900 A, 38 ("mammut").
1912 A, 325 ("mammoth").
1913 D, lxiii ("mammut").
Frech, F. 1906 A, 472 ("mammut").
1907 A, 310.
Frech and Geinitz 1913 A, 15, 34, figs.
Freudenberg, W. 1913 A, 475.
1922 A, 63, fig. 24.
Gaudry, A. 1875 C, 29, pl. A, figs. 1, 1*a*.

Gaudry, A. 1891 C, 69, 119, fig. 33.
1893 A, 10.
1903 A, 553 ("mammouth").
Gawrilenko, A. 1924 A, 227.
Geikie, J. 1894 A, 653.
1914 A, 324 ("mammoth").
Gervais, P. 1852 A, 35 (E. primigenius).
1859 A, 59, 61.
Gidley, J. W. 1912 C, 20.
1927 A, 48.
Giebel, C. G. 1883 A, pls. lxviii, lxxiv.
Gilmore, C. W. 1908 A, 27, pl. vii.
Goddard, P. E. 1927 A, 68 ("hairy mammoth").
Harmer, F. W. 1901 A, 422.
Hay, O. P. 1912 D, 664, 726, pl. xix; text-figs. 54*a*, 65-67*a*.
1914 A, 398, 406, pl. lii, figs. 4-8; pl. liv, figs. 1-5, 7-9; pl. lv, figs. 1, 3, 4; pl. lvi, fig. 1; pl. lvii, figs. 1, 2; pl. lviii, fig. 1; pl. lx; text-figs. 54*a*, 65-67*a*; 134-137.
1922 F, 99 (E. mammonteus).
1924 D, 87.
1926 B, 157, 158.
1927 D, 302, 305.
1928 C, 425 (This species?).
Heilprin, A. 1887 A, 205, 366 ("mammonth").
Herz, O. F. 1904 A, 711.
Hess, —— 1910 A, 711.
Hilzheimer, M. 1909 B, 455, figs. 1-7.
Hoernes, R. 1912 A, 663 ("mammut").
Hoffman, G. C. 1902 A, 14.
Howorth, H. H. 1878 A, 483 ("mammoth").
1893 B, 94 ("mammoth").
1905 A, 246, 251.
Hull, E. 1908 A, 156.
1914 A, 613 ("mammoth").
Hutchinson, H. N. 1910 A, pl. xlviii; text-fig. 108 ("mammoth").
Ingalls, A. G. 1926 A, 290, fig.
Jochelson, W. 1909 A, 48 ("mammoth").
Kastchenko, N. 1901 A.
Kindle, E. M. 1924 A, 183, figs. 1-3.
Knight, C. R. 1920 A, 228, fig.
Knipe, H. R. 1912 A, 191, fig.
Koken, E. 1893 B, 588 ("mammuth").
1897 A, ix ("mammuth").
Kotzebue, O. 1821 A, 220 ("mammoth").
Kunz, G. F. 1916 A, 516, figs.
Kusnezow, S. K. 1896 A, 186 ("mammoth").
Lambe, L. M. 1904 C, 31, 39, 50 (in part).
1910 C, 273.
1912 A, 14.
1914 F, 299 ("mammoth").
1914 H, 401, 403 ("mammoth").
1917 E, 295.
Lang, H. 1925 A, 1-10, 43-49 (Mostly on E. beresovkius).
Lankester, E. R. 1905 A, 93, 111, figs. 62, 76*a*.
Lartet, E. 1859 A, 501, pl. xv, fig. 12.
Lee, Stone, Gale 1915 A, 9 (in part).
Leydig, F. 1859 A, 740.
Lönnberg, E. 1907 B, 116, figs. 9, 10.
Loomis, F. B. 1905 B, 842.
Lucas, F. A. 1898 E, 718 ("mammoth").
1901 A, 307.
1901 F, 490 ("mammoth").
1901 I, 353, pls. i-v.
1901 J, 177, figs. 35, 36 ("mammoth").
Lucas, F. A. 1902 A, 554.
1902 B, 264 (in part).
1906 B, 157, 158, 163, pls. xxvii, xxxix.
1907 A, 46 ("mammoth").
1907 B, 837 ("mammoth").
Lull, R. S. 1908 A, 197 (in part), fig. 26.
1909 A, 652, 663 (in part), figs. 8, 9, 24 (plates i and ii refer to E. beresovkius).
1914 E, 68, fig. 8.
1917 A, 477.
1917 B, 601 (in part), fig. 208.
Lydekker, R. 1901 D, 361.
1908 A, 511 ("columbian mammoth").
1910 E, 352 ("mammoth").
Macloskie, G. 1884 A, 216.
Maddren, A. G. 1905 A.
Mantell, G. A. 1839 A, 140, figs. 23, 24.
Matschie, P. 1901 A, 308.
Matthew, W. D. 1915 K, 410 ("mammoth").
Mayet and Roman 1923 A, 2, 11, 12, 14, 15.
Meyer, H. 1867 C, 786.
Middendorff, A. T. 1867 A, 271 ("mammuth").
Moffitt, F. H. 1905 A, 41 ("mammoth").
Moodie, R. L. 1920 E, 463 ("mammoth").
Moreau, L. 1914 A, 88.
Murchison, R. I. 1843 A, 131.
1846 A, 344 ("mammoth").
Nehring, A. 1880 A.
Neuville, H. 1919 A, 193, fig. 1 ("mammouth").
Newton, E. T. 1882 A, 106.
Obalski, T. 1904 A, 216 ("mammoth").
Osborn, H. F. 1903 E, 249.
1904 F, 46 ("mammoth").
1905 D, 316.
1905 H, 226 (in part).
1905 I, 111 (in part).
1909 D, 125 (in part).
1910 B, 420, fig. 183.
1914 D, 408, fig. 1.
1915 C, 263.
1916 B, 541.
1918 C, 135 (Euelephas primigenius); table (Elephas).
1920 A, 228, 240, figs.
1924 G, 1, 2, fig. 1 (E. primigenius, E. p. compressus, Mammonteus primigenius).
1925 A, 11, 19, 21, 23 (Mammonteus primigenius).
1925 B, 29, 33, fig. 3 (Mammonteus primigenius; M. p. americanus).
1925 F, 962.
Owen, R. 1860 E, 391, figs.
1866 B, 439, figs. 295, 296.
1868 A, 362, 618.
1885 B, 31, figs. 1, 2.
Pavlow, M. 1907 A, 139.
1909 A, 172, pl. v, figs. 6-9.
1910 A, 29, pl. ii, figs. 29-42.
Pfizenmayer, E. 1906 A, 521.
1910 A, 148, figs. 1-7.
Pohle, R. 1904 A, 577 ("mammut").
Pohlig, H. 1892 B, 314 (E. mammonteus, E. primigenius).
Pontier, G. 1904 A, 248.
1910 A, 497.
1911 A, 465, pl. x, figs. 6-8.
Preble, E. A. 1923 A, 119.
Quackenbush, L. S. 1909 A, plates.

Ranking, J. 1828 A, 371 ("mammouth").
Ricci, A. 1901 A, 369, pl. vi.
Richardson, J. 1854 B, 83.
Rutten, L. M. R. 1909 A, 21, pl. i, figs. 12-14.
Salensky, W. 1903 A, 893, fig. 1.
  1903 B, 1-124, pls. i-xxv.
  1909 A, 599 ("mammoth").
Scharff, R. F. 1895 A, 451.
  1907 A, 173, fig. 55.
  1911 A, 78 (in part).
Schlesinger, G. 1912 A.
Schlosser, M. 1903 I, 120.
  1916 A, 47.
Schmidt, F. 1869 A, 97.
Schmidt, O. 1886 A, 236, fig. 42.
Schrenck, L. 1871 A, 718 ("mammut").
Schuchert, C. 1915 A, 435, 956, fig. 513.
Schuchert and Levene 1927 A, 339, 352, fig.
Scott, W. B. 1913 A, 196, 207, 426 (in part).
Serres, M. 1852 A, 120.
  1860 A, 301.
Shufeldt, R. W. 1889 D, 33, fig.
Soergel, W. 1921 A, text-figs. 3-5, 7.
Southall, J. C. 1875 A, 596 ("mammoth").
  1878 A, 422 ("mammoth").
Spurr, J. E. 1898 A, 207, 219 ("mammoth").
  1900 A, 132 ("mammoth").
Stanley-Brown, J. 1892 A, 499 ("mammoth").
Stefanescu, S. 1919 E, 1332.
Stefano, G. 1915 A, 210.
Stejneger, L. 1907 A, 479.
Stingelin, T. 1902 A, 1, pls. i, ii.
Stirrup, M. 1893 B, 334 ("mammoth").
Stromer, E. 1906 B, 48.
  1912 A, 217, fig. 206.
Tentzel, W. E. 1698 A, 757-776 ("elephas").
Tilesius, W. G. 1815 A, 470, pls. x, xi (E. mammonteus, E. primordialis, E. primigenius).
Tissandier, G. 1877 A, 139 ("mammouth").
Tolmachoff, I. P. 1927 A, 66 ("mammoth").
  1928 A, 294 ("mammoth").
Toula, F. 1908 A, 267.
Townsend, C. H. 1887 A, 89 ("mammoth").
Trouessart, E. L. 1905 A, 603.
  1913 A, 727.
Tukeman, H. 1899 A, 504.
Udden, J. A. 1905 A, 47-57 (in part).
Van Bemmelen, J. F. 1918 A, 575 ("mammoth").
Van de Wiele, C. 1903 A, 593.
Vollosovic, K. 1909 A, 437 ("mammouth").
Ward, H. A. 1866 A, 35.
Weber and Abel 1928 A, 473, 475, figs. 304, 307.
Wilckens, O. 1911 A, 705 ("mammut").
Winge, H. 1904 A, 241.
Woodward, A. S. 1923 C, 56, figs. 42-44.
Woodward, H. 1904 A, 152.
Wright, G. F. 1909 A, 512 ("mammoth").
Wüst, E. 1901 A, 247.
Zittel and Schlosser 1911 A, 539, fig. 736.
  1923 A, 631, 681, fig. 778.

Doubtless some of the references to American specimens of elephants in the papers cited apply in reality to *Elephas boreus*, others to *E. beresovkius* and *E. sibiricus*.

Elephas roosevelti Hay.

Hay, O. P. 1922 F, 101.
  1914 A, 409, pl. lix (E. primigenius).
Hay, O. P. 1924 D, 48.
  1925 A, 1-6, pls. i-iv; text-fig. 1 (E. roosevelti; "Mammonteus primigenius compressus").
  1926 B, 159.
Lindemuth, A. C. 1878 A, 509 ("mammoth").
Osborn, H. F. 1922 B, 8, fig. 8 (E. jeffersonii).
  1923 G, 5, fig. 2 (Mammonteus primigenius compressus).
  1925 A, 22 (Mammonteus primigenius compressus).
  1925 B, 33 (Mammonteus primigenius compressus).

Pleistocene; Illinois, Wisconsin, Ohio, Indiana.

Elephas scotti Barbour.

Barbour, E. H. 1925 A, 21, figs. 7-10.
Hay, O. P. 1927 D, 280.

Pleistocene (Aftonian); Nebraska.

Elephas washingtonii Osborn.

Osborn, H. F. 1923 E, 4.
Hay, O. P. 1927 D, 35.
Peterson, O. A. 1928 A, 119, text-fig. 24.

Pleistocene; Washington.

Elephas sp. indet.

All of the remains referred to below are believed to belong in the Pleistocene.

Anderson, F. M. 1908 A, 35 ("elephant"). California.
Andrews, E. B. 1874 A, 471 ("mammoth"). Ohio.
Anonymous 1927 A, 479 ("mammoth"). Oklahoma.
Arnold, R. 1903 A, 53 ("elephant"). Santa Rosa Island, California.
Ashley, G. H. 1895 A, 334 ("Elephas"). Santa Rosa Island, California.
Baker, F. C. 1920 A, 458 (in part) (E. americanus, E. columbi, E. jacksoni, E. primigenius).
Bancroft, H. H. 1875 A, 697 ("elephants"). California.
Barton, B. S. 1806 B, 157 ("mammoth"). Pennsylvania, New York.
  1810 A, 340, 342 ("mammoth"). Virginia, New York, Pennsylvania.
  1814 A ("elephant").
Bell, R. 1897 A, 136 A. Edmonton, Alberta.
  1898 B, 223 ("mammoth"). Hudson Bay, Ungava.
Berthoud, E. L. 1872 A, 302 ("elephant"). Colorado.
Beyer, S. W. 1899 A, 211 (E. primigenius). Iowa.
Bibbins, A. B. 1905 A, 48 ("mammoth"). Washington, D. C.
Blake, W. P. 1856 A, 395 (E. primogenius). California.
  1857 A, 257 (E. primigenius). California.
  1884 A, 273, fig. 1. Nevada.
  1899 A, 636 ("mammoth'). California.
Bowers, S. 1878 A, 317 ("vertebrates"). Santa Rosa Island, California.
Branner, J. C. 1909 A, 7 ("mastodon"). Stanford University, California.
Bretz, J. H. 1913 A, 180 ("mammoth"). State of Washington

Briggs, C. 1838 B, 96 ("mammoth"). Ohio.
Broadhead, G. C. 1898 A, 376. Missouri.
Brown, J. S. 1904 A, 119 ("mammoth"). Texas.
Buckley, S. B. 1876 A, 29 (E. primagenius). Texas.
Calvin, S. 1910 A, xii ("elephant"). Iowa.
1911 A, 210 (E. indianapolis; insufficient description).
Campbell, G. D. 1883 A, 579 ("mammoth"). Carson, Nevada.
Cannon, G. L. 1888 B, 59, 61 ("elephant") Colorado.
1896 in Emmons, S. F. 1896 A, 264 ("elephant"). Colorado.
Carpenter, F. R. 1888 A, 49 (E. primigenius). South Dakota.
Clarke, J. M. 1912 A, 500 ("mammoth"). New York.
Coleman, A. P. 1895 A, 641 ("mammoth"). Ontario.
1899 A, 195 ("mammoth"). Ontario.
1900 A, 330 ("mammoth or mastodon"). Ontario.
1907 A, 1248 ("mammoth"). Ontario.
1913 B, 34 ("mammoth"). Ontario.
1914 A, 448 ("mammoth"). Ontario.
Collett, J. 1876 A, 246, 293 (E. americanus). Indiana.
1881 A, 16, 386 (E. americanus). Indiana.
1883 A, 73 ("mammoth"). Indiana.
Cook, H. J. 1926 D, 335, 2 sp. Colorado, Texas.
Cooke, C. W. 1926 A, 445 ("mammoth"). Florida.
1928 A, 421. Florida.
Cooper, Smith, and DeKay 1831 A, 371 ("elephant"). Kentucky.
Cope, E. D. 1878 H, 125 (E. primigenius). Fossil Lake, Oregon.
1895 G, 599 (E. primigenius). General.
Cox, E. T. 1871 A, 103 ("mammoth"). Indiana.
1875 A, 214 ("mammoth"). Indiana.
Cresson, H. T. 1890 A, 469 ("engraved shell"). Delaware.
Cuvier, G. 1825 A, I, 155. South Carolina, Pennsylvania, Kentucky, Maryland, Virginia, Louisiana, Mexico.
Dall, W. H. 1868 A, 35. Alaska.
Dall and Harris 1892 A, 284 (E. primigenius). General.
Dawson, G. M. 1899 A, 19 A (E. primigenius). Alberta.
Deussen, A. 1924 A, 110 (E. primigenius); 116 (E. columbi). Texas.
Diffenderfer, F. R. 1873 A, 62 (E. americana). Chihuahua, Mexico.
Diller, J. S. 1906 A, 6, 11 ("elephants"). California.
1911 A, 27. California.
Drayton, J. 1802 A, 40 ("elephant"). South Carolina.
Dryer, C. R. 1889 A, 129 ("mammoth"). Indiana.
Dumble, E. T. 1920 A, 268. Texas.
Edwards, J. J. 1902 A, 248 (E. primigenius). Indiana.
Elrod and Benedict 1892 A, 240 (E. primigenius). Indiana.
Fairbanks, H. W. 1897 A, 216, 226, 227 ("Elephas"). Santa Rosa Island, California.
Fairchild, H. L. 1887 A, 20-24 (E. primigenius). General.
Falconer, H. 1863 A, 67 (E. rupertianus, E. jacksoni, E. americanus).
Ferguson, H. G. 1917 A, 182 (Elephas). Nevada.
Foster, J. W. 1838 B, 358 ("elephant"). Ohio.
1838 C, 363, figs. (E. jacksoni). Ohio.
1839 A, 190, fig. 2 ("elephant"). Ohio.
1869 A, 231 (E. primigenius). California.
1873 A, fig. 4 (E. primigenius). General.
Fowke, G. 1902 A, 107 ("mammoth"). Ohio.
Freudenberg, W. 1910 A, 5. Mexico.
1922 A, 26 (E. columbi?); 39 (E. jacksoni). Mexico.
Furlong, E. L. 1925 A, 139, 140, 142 (Elephas). Mexico. Tequixquiac, Hidalgo: Saltillo, Coahuila: Zumpango, Guerrero; Mexico.
Gibbes, C. D. 1882 A, 1 (E. primigenius). Carson, Nevada.
1882 B, 9, pl. Carson City, Nevada.
Gidley, J. W. 1912 C, 20 (E. primigenius). General.
1924 A, 69 ("Elephas"). Nevada.
1928 B, 12, 13, 14, figs. 12-14 ("mammoth"). Pleistocene; Oklahoma, Florida.
Gilbert, G. K. 1890 A, 303, 304 ("mammoth"). Utah.
Goddard, P. E. 1926 A, 258. Florida.
Goodyear, W. A. 1890 A, 169 ("elephant"). Santa Rosa Island, California.
Harkness, H. W. 1882 A, 2 ("mammoth"). Carson, Nevada.
Harlan, R. 1831 C, 59 ("elephant"). Virginia.
Hay, O. P. 1914 A, 67, 437, pl. lvii, fig. 1 (E. primigenius?).
1923 A, 484 (E. primigenius?). Iowa.
1924 D, 376. Colorado, Iowa, Kansas, Louisiana, Minnesota, Missouri, Montana, Nebraska, New Mexico, North Dakota, South Dakota, Texas, Wyoming.
1926 D, 359. Tuolumne Mountain, California.
1927 D, 301, 310 (E. sp. indet.); 305 (E. americanus). Pleistocene; Arizona, California, Idaho, Nevada, Ontario, Oregon, South Dakota, Texas, Utah, Washington, Wyoming.
Hayden, H. H. 1920 A, 121 ("asiatic elephant"). Maryland. Virginia, South Carolina.
Haymond, R. 1869 A, 200 (E. primigenius). Indiana.
Haynes, H. W. 1889 A, 348 ("elephants"). In loess in Nebraska; Walker River, Nevada.
Henshaw, H. W. 1883 A, 152 ("elephant"). General.
Hildreth, S. P. 1834 A, 256 ("elephant"). Ohio.
Holmes, W. H. 1901 A, 423 ("elephant"). California.
Howorth, H. H. 1905 A, 93 ("mammoth"); 94 (E. columbi); 99, 103 ("elephant").
Jefferson, T. 1787 A, 64 ("mammoth"). Virginia.
Kay, G. F. 1921 A, 80 ("proboscidean." May be mastodon). Iowa.
Knight, W. C. 1903 A, 828 (E. primigenius). Wyoming.

Knowlton, F. H. 1911 D, 63 ("elephant"). California.

Lambe, L. M. 1911 B, 271 ("mammoth"). Alberta.

Lawson, J. S. 1874 A, 379 (E. primigenius). Whidbey Island, Washington.

Le Conte, J. 1882 A, 922 (E. primigenius?). Nevada.

1883 A, 101 (E. americanus). Nevada.

1887 A, 515 ("mammoth"). Santa Rosa Island, California.

Leidy, J. 1886 D, 275 (Elephas). Nicaragua.

Leverett, F. 1889 A, 179 ("mammoth"). Illinois.

1897 A, 71 ("mammoth"). Illinois.

Lindemuth, A. C. 1878 A, 508 ("mammoth"). Ohio.

Lindgren, W. 1911 A, 193 ("elephant"). Carson City, Nevada; 51, 52, 212 ("elephant"). California.

Lloyd, J. U. 1904 A, 43 ("mammoth"). General.

Loomis, F. B. 1926 B, 262. Florida.

Lull, R. S. 1908 A, 197 (in part), fig. 25 (E. primigenius). General.

Lyell, C. 1843 B, 126 ("elephant"). Kentucky.

1845 B, II, 59, 65, 69 (E. primigenius).

1847 C, lxxxi (E. primigenius). Kentucky.

1855 A, I, 348; II, 261 ("elephant").

McAdams, W. 1883 A, pl. lxxix ("elephant"). Illinois.

McCornack, E. C. 1920 A, 18, 23. Oregon.

McGee, W. J. 1891 A, 471 ("mammoth"). Iowa.

Madison, J. 1805 A, 58 ("mammoth"). Virginia.

Mather, W. W. 1843 A, 44 ("fossil elephant"). New York.

1843 B, 233, 636 ("elephant"). New York.

Meek, F. B. 1855 A, 215 (E. primigenius). Missouri.

Mercer, H. C. 1885 A, 1-95 ("mammoth"). On Lenapi stone.

Merriam, J. C. 1900 A, 613, 614 ("Elephas"). Contra Costa County, California.

1914 A, 15 ("Elephas"). Nevada.

Miller, B. L. 1911 A, 123 (E. americanus). District of Columbia.

Miller, L. H. 1912 A, 71 (E. primigenius). California.

Mitchill, S. L. 1826 A, 5 ("mammoth"). Long Island, New York.

Newberry, J. S. 1861 A, 38 (E. primigenius). Arizona.

1870 D, 32 ("mammoth"). General.

1873 E, 183 ("mammoth"). Ohio.

1873 F, 87 ("elephant"). Ohio.

Norton, W. H. 1901 A, 377 (E. primigenius). Iowa.

Owen, D. D. 1857 B, 103 ("mammoth").

Owen, L. A. 1926 A, 380 ("mammoth"). Pleistocene (Loess); Missouri.

Owen, R. (of America) 1862 A, 197. Indiana.

Pavlow, M. 1910 A, 28 (E. americanus).

Plummer, J. T. 1843 A, 302 ("tusk"). Indiana.

Putnam, C. E. 1886 A ("elephant"). Iowa.

Putnam, F. W. 1890 A, 468. General.

Rae, J. 1879 A, 669 ("mammoth"). General.

Rath, G. 1886 A, 105 (E. primigenius). Mexico.

Read, M. C. 1873 A, 526 (E. americanus?). Ohio.

Rockwell, A. P. 1872 A, 373 ("elephant"). Colorado.

Russell, I. C. 1890 A, 122 ("mammoth"). Alaska.

Savage and Udden 1922 A, 178 ("elephant"). Illinois.

Sellards, E. H. 1919 A, 73 ("elephant"). Texas.

Shaler, N. S. 1877 A, 197 (E. primigenius). Kentucky.

Sinclair, W. J. 1903 A, 711. California.

1904 A, 18, 20. California.

1904 B, 11 (This genus?). Nevada.

1908 A, 112 ("elephant"). California.

Smith, W. G. T. 1900 A, 229 ("Elephas"). Santa Rosa Island, California.

Stalnaker, A. M. 1884 A, 615 ("mastodon"). Iowa.

Stauffer, C. 1924 A, 40, 41. Minnesota.

Stearns, R. E. C. 1873 A, 152 ("elephant"). California.

Sterling, E. 1886 A, 309 ("mammoth"). Ohio.

1883 in Putnam, C. E. 1886 A, 309 (E. primigenius). Ohio.

Sternberg, C. H. 1909 C, 160 (E. primigenius). Oregon.

Stewart, T. 1828 A, 188 ("mammoth"). New Jersey.

Stock, C. 1925 A, 113 (E. primigenius). California.

Stock and Furlong 1928 A, 19. Santa Rosa Island, California.

Swallow, G. C. 1858 A, 35 (E. primigenius); Missouri.

Thompson, W. H. 1886 A, 159 (E. primigenius). Indiana.

Todd, J. E. 1880 A, 14 (E. americanus). Iowa.

1894 A, 126 (E. americanus). South Dakota.

1896 A, 129 ("mammoth"). Missouri.

1899 A, 85 ("mammoth"). South Dakota.

1918 A, 45 ("mammoth"). Kansas.

Udden, J. A. 1899 A, 350 ("elephant"). Iowa.

1901 B. 110 ("elephant"). Iowa.

1902 A, 428 (E. americanus). Iowa.

1903 A, 170 ("mammoth"). Iowa.

1912 A, 61 ("proboscidian"). Iowa, Illinois.

Upham W. 1903 C, 22679 ("mammoth"). General.

Voy, C. D. 1897 A, 227 (E. primigenius). Santa Rosa Island, California.

Weidman, S. 1907 A, 430 ("mammoth"). General.

Whitney, J. D. 1862 A, 129, 133 ("elephant"). Lead Region, Illinois, etc.

1864 A, 264 ("elephant"). California.

1865 A, 242, 252 ("elephant"). California.

1866 A, 162 ("elephant"). Lead Region, Illinois, etc.

Whittlesey, C. 1866 A, 8 (E. primigenius). Ohio.

Wilson, T. 1901 A, 299. General.

Winchell, A. 1861 A, 132 ("elephant"). Michigan.

1870 A, 504 ("mammoth"). Michigan.

Winchell, N. H. 1878 A, 61 ("elephant"). Minnesota.

1882 A, 146 ("elephant"). Montana.

1885 A, 148, pl. ii (E. primigenius). Minnesota.

1905 A, 259 (E. primigenius). Illinois.

1907 A, 163 ("mammoth"). General.

Witter, F. M. 1892 A, 67 ("elephant"). Iowa.

Worthen, A. H. 1866 A, 38, 39 ("mammoth"). Illinois.
1873 A, 237, 252 ("mammoth"). Illinois.
1890 A, 8 ("mammoth"). Illinois.
Wright, G. F. 1903 A, 297 ("mammoth"). New York.
1905 A, 18 ("mammoth"). General.
Wright, G. F. 1908 A, 22, 31 ("mammoth"). General.
1911 A, 282 ("mammoth"). General.
1911 B, 438, 586, 690 ("mammoth"). General.
Yates, E. G. 1890 A, 51, 52 ("elephant"). Santa Rosa Island, California.
1915 A, 67. California.

Order SIRENIA Illiger.

Illiger, C. 1811 A, 140.
Hay, O. P. 1902 A, 582.
Abel, O. 1904 A, 1-223.
1904 B, 741 ("sirenen").
1906 A, 50 ("sirenen").
1907 C (80) ("sirenen").
1908 A, 479 ("sirenians").
1908 B, 139, 143 ("sirenen").
1910 B (186) ("sirenen").
1912 F, 124, 176, 197 ("sirenen").
1913 A, 289 ("sirenen").
1913 B, 729, 750b.
1914 A, 122, 213.
1920 A, 445.
1921 A, 217, 232, fig. 83 ("sirenen").
1922 B, 2 ("sirenen").
1922 E, 368 ("sirene").
1923 A, 215 ("sireniden").
Allen, J. A. 1882 A, 15.
Ameghino, F. 1904 B, 51.
1906 A, 407 ("siréniens").
Anderson, R. J. 1898 A, 765 ("dugong").
1902 A, 1121.
Andrews, C. W. 1902 A, 293, 295.
1906 A, xx.
1909 C, 305.
1912 A, 454.
1924 A, 304.
Anthony, R. 1912 A ("siréniens").
Arldt, T. 1907 D, 681.
Ash, F. H. 1908 A, 81.
Beddard, F. E. 1900 A, 319.
1902 A, 333.
Black, N. 1900 A, 15.
Boas, J. E. V. 1914 B, 577, 586 ("sirenen").
Bonaparte, C. L. 1832 A, 293.
Branca, W. 1907 A, 9 ("sirenen").
Brandt, J. F. 1833 A, 114 ("cétacés herbivores").
Braun, M. 1906 B, 131 ("sirenen").
Broom, R. 1897 B, 252.
1915 A, 162.
Brown, A. E. 1878 A, 291.
Case, E. C. 1898 C, 830.
1904 D, 56, 57.
Carus, V. 1875 A, 168.
Christol, J. 1834 A, 257 ("dugongs").
Clark and Sonntag 1926 A, 454, 459.
Cope, E. D. 1885 BB, 71.
1891 N, 67, 70.
Cuvier, F. 1825 A, 236 ("lamantins").
1836 A, 1 ("cétacés herbivores").
Dart, R. A. 1923 A, 637.
Depéret, C. 1907 B ("siréniens").
Depéret and Roman 1920 A, 1-55, pls. i-vii; 14 text-figs. ("siréniens").
Dilg, C. 1909 A, 83.
Dollo, L. 1889 E, 188 ("siréniens").
Dollo, S. 1889 L, 415 ("siréniens").
1892 D, 118 ("siréniens").
1922 A, 216 ("siréniens").
Doran, A. H. G. 1878 A, 464.
Eggeling, H. 1904 A, 99.
Elliot, D. G. 1901 A, 5.
Fraas, E. 1905 B, 378.
Frassetto, F. 1915 A, 21.
Freund, L. 1905 A, 426 ("sirenen").
1911 A, 377.
1912 A, 557 ("sirenen").
1913 A, 258 ("sirenen").
1914 A, 353 ("sirenen").
1914 B, 706.
Fuchs, H. 1908 A, 353 ("sirenen").
Gaupp, E. 1913 A, 125 ("sirenen").
Gervais, P. 1852 A, 141, 199 ("siréniens").
1859 A, 276 ("sirénides").
Giebel, C. G. 1855 A, 83.
1883 A ("sirenen").
Gottlieb, H. 1914 A, 190, 210.
Gregory, W. K. 1910 A, 78, 82, 406, 407, 423, 430, 452.
1920 A, 184, 245.
Hay, O. P. 1915 B, 384.
Heilmann, G. 1914 A, 90.
Heilprin, A. 1887 A, 339.
Hennicke, C. 1902 A, 159, 163.
Hilzheimer, M. 1913 A, 570.
Hoernes, R. 1886 A, 682.
Hogben, L. T. 1919 A, 76.
Howes, G. B. 1893 C, 572.
1903 A, 326, 328.
Howes and Harrison 1893 A, 790.
Huxley, T. H. 1863 F, 579, 609, 633.
Jaekel, O. 1911 A, 245 (Sirenii).
Kampfen, P. N. 1905 A, 633.
Kaup, J. J. 1840 A, 673.
Kellogg, R. 1924 C, 755.
Kingsley, J. S. 1884 A, 210-214.
1925 A, 218, 300.
Knox, R. 1831 A, 389 ("dugong").
Koken, E. 1893 B, 487.
Kükenthal, W. 1897 B, 140 ("sirenen").
1897 C, 181 ("sirenen").
1913 A, 683.
1914 A, 561 ("dugong").
Larger, R. 1913 A, 718 ("siréniens").
Lavocat, A. 1885 A, 46 ("siréniens").
Leche, W. 1887 A.
1900 A, 1028.
1921 A, 72.
Leunis and Ludwig 1883 A, 275.
Lorenz, L. 1904 B, 142 ("sirenen").
Lucas, F. A. 1916 B, 315 ("sea-cows").
Lull, R. S. 1909 A, 641.
1910 D, 153.

Lull, R. S. 1912 A, 220, 246.
1917 B, 322.
Lydekker, R. 1903 D, 124 ("sea-cows").
1907 E, 673.
Major, C. J. F. 1899 B, 62.
1918 B, 66.
Matsumoto, H. 1923 A, 111.
Matthes, E. 1912 A, 594 ("sirenen").
1915 A ("sirenen").
1921 B, 139 ("sirenen").
1921 C, 1-304.
Matthew, W. D. 1912 A, 156.
1915 A, 256, 314.
1915 H, 439 ("sirenians").
1916 B, 23.
Mitchell, P. C. 1905 A, 464.
Nopcsa, F. 1923 B, 354, 357 ("sirenen").
Osborn, H. F. 1902 E, 356, fig. 1.
1905 I, 109.
1905 N, 242.
1906 B, 56.
1907 G, 15, 188.
1907 K, 817, 830.
1909 E, 139.
1910 B, 631.
1917 B, 269, 270 ("sirenians").
1925 B, 18.
Osburn, R. C. 1903 A, 653.
1906 A, 448.
Owen, R. 1857 E.
1858 A, 26.
1868 A, 908.
Palacký, J. 1902 C, 254 ("sirenen").
Parker and Haswell 1897 A, 451, 502, figs. 1082, 1083.
Perrier, E. 1920 A, 152, 229 ("sirénides").
Peterson, O. A. 1912 B, 164.
Petronievics, B. 1923 B, 58.
Pictet, F. J. 1853 A, 368 ("sirénoides").
Pompeckj, J. F. 1925 A, 10 ("sirenen").
Reynolds, S. H. 1897 A, 518, 554.
Ryder, J. 1887 A, 346.
1887 B, 427, 475 ("sirenians").
Sabatier, A. 1897 B, 933 ("sirénides").
1902 A, 100 ("sirénides").
Schlosser, M. 1899 L, 351 ("sirenen").
1911 A, 161 ("sirenen").
Schmidt, O. 1886 A, 242.
Schmidtgen, O. 1912 A, 465 ("sirenen").
Schwarz, E. 1924 A, 420 ("sirenians").
Sclater, P. L. 1897 A, 351.
Scott, W. B. 1913 A, 442.
Smith, G. E. 1903 B, 49.
Steinmann, G. 1907 A, 503.
1912 A, 47 ("sirenen").
1912 B, 718 ("sirenen").
Sterling, S. 1910 C, 667 ("sirenen").
Stromer, E. 1902 B, 555 ("sirenen").
1912 A, 220, 246.
1921 A, 41.
Terra, P. 1911 A, 339.
Tredgold, A. F. 1897 A, 295.
Trouessart, E. L. 1905 A, 748.
Troxell, E. L. 1925 D, 613 ("sirenians").
True, F. W. 1905 C, 384.
1912 D, 197, 198.
Wagner, R. 1843 A, 12.
Wallace, A. R. 1876 A, I, 502; II, 210.
Weber, M. 1904 A, 727.
Weber and Abel 1928 A, 479, 494, 496, 896.
Weber and Burlet 1927 A.
Wilckens, O. 1911 A, 768 ("sirenen").
Wilder, B. 1875 A, 105.
Williston, S. W. 1902 F, 263 ("sirenians").
1912 E, 261.
1914 A, 62.
Woodward, A. S. 1898 E, 330 ("sea-cows").
1909 A, 330.
1910 B, 470.
1923 C, 68.
Woodward, H. 1904 B, 155.
Wortman, J. L. 1920 A, 16.
1921 A, 186.
Yoshiwara and Iwasaki 1902 A, 12, 13.
Zaaijer, T. 1894 A, 340 ("sirenen").
Zittel and Schlosser 1911 A, 540.
1923 A, 632, 636, 670.

Suborder DESMOSTYLIFORMES Hay.

Hay, O. P. 1923 B, 109.
Abel, O. 1923 E, (135).

DESMOSTYLIDÆ Osborn.

Osborn, H. F. 1905 H, 223.
Abel, O. 1913 B, 729, 748, 750*a*.
1914 A, 122, 192, 213.
1919 A, 830.
1920 A, 445.
Hay, O. P. 1915 B, 385.
Matsumoto, H. 1918 B, 71.
Osborn, H. F. 1905 I, 109.
1910 B, 559.
Zittel and Schlosser 1923 A, 635, 636.

CORNWALLIUS Hay. Type *Desmostylus sookensis* Cornwall.

Hay, O. P. 1923 B, 107.
1924 C, 4.

Cornwallius sookensis (Cornwall).

Cornwall, I. E. 1922 A, 121, 4 figs. (Desmostylus).
Clark and Arnold 1923 A, 177, pl. xxix, 5 figs. (Desmostylus).
Cornwall, I. E. 1922 in Abel, O. 1922 E, 366, 384 (Desmostylus).
Hay, O. P. 1923 B, 106, text-fig. 4.
1924 C, 4, pl. i, figs. 4, 5; pl. ii; text-fig. 1.
Kermode, F. 1917 A, 42, 43, pl. ix (Desmostylus).
Lambe, L. M. 1917 D, 42, pl. ix, figs. 2, 3 (D. hesperus).

Upper Oligocene or Lower Miocene (Sooke); British Columbia.

Desmostylus Marsh. Type *D. hesperus* Marsh.

Hay, O. P. 1902 A, 583.
Abel, O. 1913 B, 748, 750-*b*.
1914 A, 213.
1919 A, 830, figs. 829, 830.
1922 B, 1.
1922 E, 367.
1923 A, 213.
1926 E, (134).
Andrews, C. W. 1924 A, 308.
Hannibal, H. 1922 A, 238.
Hay, O. P. 1915 B, 381, 397.
1923 B, 105, 107.
1924 C, 1.
Joleaud, L. 1920 A, 499.
McCornack, E. C. 1914 A, 3, fig.
Matsumoto, H. 1918 A, 59.
1918 B, 61.
Matthew, W. D. 1916 B, 27.
1916 I, 109.
Merriam, J. C. 1906 C, 151.
1911 D, 403.
1915 E, 196, 208.
Miller, L. H. 1915 B, 72.
Osborn, H. F. 1905 D, 109.
1910 B, 344, 394, 549.
1922 G, 450.
Palmer, T. S. 1904 A, 224, 904.
Rogers, A. F. 1924 A, 545.
Stromer, E. 1924 A, 254.
Trouessart, E. L. 1905 A, 751.
Weber and Abel 1928 A, 44, 48, 85, figs. 13, 14.
Wiman, C. 1923 A, 225.
Yoshiwara and Iwasaki 1902 A (Without generic or specific name).
Zittel and Schlosser 1911 A, 542.
1923 A, 635.

Desmostylus californicus Hay.

Hay, O. P. 1923 B, 106.
Upper Miocene (San Pablo); California.

Desmostylus hesperus Marsh.

Hay, O. P. 1902 A, 583.
Abel, O. 1922 B, 1.
1922 E, 362, pls. i-iii; text-figs. 2-4.
1923 A, 213, figs. 1, 3, 4.
1926 E, (135).
Anderson, F. M. 1911 A, 101 ("Desmostylus"; this species?).
Andrews, C. W. 1924 A, 308.
Cornwall, I. E. 1922 A, 122.
Hannibal, H. 1922 A, 238, pl. xii (D. hesperus); 239, pl. xi (D. cymatias).
Hay, O. P. 1915 B, 381, 397, pls. lvi-lviii.
1922 G, 392.
1923 B, 105, 107, text-fig. 5.
1924 C, 5, pl. i, fig. 3; text-fig. 2.
Lambe, L. M. 1916 A, 197.
Matsumoto, H. 1918 B, 72.
Merriam, J. C. 1911 D, 407, figs. 1-3 (D. sp.).
1915 E, 194, 197, 203, fig. 21 (This species?).
Osborn, H. F. 1902 H, 713.
1918 A, 23.
Palacký, J. 1902 C, 255.
Smith and Packard 1919 A, 97.
Yates, L. G. 1903 A, 20, figs. 1-3.
Middle Miocene (Temblor); California, Oregon.

Desmostylus sp. indet.

Hay, O. P. 1924 C, 1, pl. i, figs. 1, 2.
Kellogg, R. 1927 B, 1 ("Desmostylus"). Miocene (Temblor); California.

Suborder TRICHECHIFORMES Hay.

Hay, O. P. 1923 B, 109.
Abel, O. 1923 E, (135).

HALITHERIIDÆ Gill.

Gill, T. 1872 B, 13, 92.
Hay, O. P. 1902 A, 582.
Abel, O. 1904 A, 12, 154, 197 (Halicoridæ).
1913 A, 358 (Halitheriinæ).
Dollo, L. 1889 L, 421.
Freund, L. 1904 A, 363 (Halicore).
Matthes, E. 1921 A, 209, figs. 1-6 (Halicore).
Matthew, W. D. 1916 B, 24 (Halicoridæ).
Roger, O. 1896 A, 247 (Halicoridæ).
Stromer, E. 1921 A, 41, 52 (Halicoridæ).
Trouessart, E. L. 1905 A, 749 (Halicoridæ).
Weber, M. 1904 A, 738 (Halicoridæ).
Weber and Abel 1928 A, 502 (Halitheriinæ).
Zittel and Schlosser 1911 A, 542 (Halicoridæ).
1923 A, 634 (Halicoridæ).

Metaxytherium Christol. Type, none selected.

Chrystol, J. 1840, L'Institut, Paris, VIII, 322-323.
Hay, O. P. 1902 A, 582 (Dioplotherium).
Abel, O. 1902 B, 515.
1904 A, 12, figs. 2-4, 6, 7, 9, 10-12, 17, 21, 22.
1905 D, 393.
1907 G, 30, fig. 23.
1908 B, 144.
1909 E, (244).
1912 F, 192, 527, 685.
1919 A, 832, figs. 631, 639.
1920 A, 446, fig. 679.
1923 A, 224.
Arldt, T. 1907 D, 433.
Boas, J. E. V. 1914 B, 586.
Capellini, G. 1886 A, 39, pl.
Christol, J. 1840, Comptes Rendus, Paris, XI, 527.
1841, Ann. Sci. Nat., Paris (2), XV, 331. pl. vii.
Depéret, C. 1907 B.
1914 A, 1859, 1861.
Depéret and Roman 1920 A, 6, 13, 19, 26-33, pl. vii; text-figs. 3, 4, 6, 7, 10.
Dollo, L. 1889 L, 416.
Flot, L. 1887 A, 137.

Frassetto, F. 1915 A, fig. 20.
Freund, L. 1905 A, 434.
Gervais, P. 1852 A, explan. pls. iv, v, vi (Metaxytherium or Halitherium).
1859 A, 277 (Halitherium).
Hay, O. P. 1922 B, 1.
Heilmann, G. 1913 A, 58.
Kellogg, R. 1924 C, 765.
1925 B, 57.
Lepsius, G. R. 1881 A.
Lydekker, R. 1887 A, 5 (Syn. of Halitherium).
Palmer, T. S. 1904 A, 418, 904 (Metaxytherium); 236, 904 (Dioplotherium).
Schmidtgen, O. 1912 A, 478.
Stromer, E. 1921 A, 41, 50.
Trouessart, E. L. 1905 A, 750 (Metaxitherium); 751 (Dioplotherium).
True, F. W. 1905 C, 835.
Van Oort, E. D. 1903 A, 98.
Weber and Abel 1928 A, 498, 502, fig. 331.
Zittel, K. A. 1893 B, 198, 202.
Zittel and Schlosser 1911 A, 542.
1923 A, 634.

Metaxytherium floridanum Hay.

Hay, O. P. 1922 B, 1, pl. i.
Allen, G. M. 1923 A, 233, pl. xxvi; text-fig. 1.
Hay, O. P. 1923 A, 379.
Kellogg, R. 1925 B, 59, 67, 68.
Matson, G. C. 1915 A, 37, pl. xii, figs. a, b ("manatee").
Zittel and Schlosser 1923 A, 634.
Miocene or Pliocene (Bone Valley); Florida.

Metaxytherium jordani Kellogg.

Kellogg, R. 1925 B, 59, pl. ix, fig. 3; pls. x, xi.
Weber and Abel 1928 A, 502.
Upper Miocene or Sarmatian; California.

Metaxytherium manigaultii (Cope).

Hay, O. P. 1902 A, 583 (Dioplotherium).
Allen, G. M. 1923 A, 231 (Diplotherium manigaulti).
1926 A, 458, pl. ii, figs. 3, 4; pl. iii, figs. 4, 5.
Kellogg, R. 1925 B, 59 (To Metaxytherium).
Manigault, G. E. 1886 A, 92 ("dugong").
Palacký, J. 1902 C, 254 (Diplotherium).
Stromer, E. 1921 A, 50 (D. menigaultii).
Upper Miocene; South Carolina.

Metaxytherium sp. indet.

True, F. W. 1906 A, 834, 840, pl. lxxvi, fig. 4 ("fossil sirenian." This genus?).
Middle Miocene (Calvert); Maryland.

HALITHERIUM Kaup. Type *Halytherium dubium* Kaup.

Kaup, J. 1838, Neues Jahrb. Min., 319 (Halytherium, misprint).
Abel, O. 1902 B, 515.
1904 A, 4, figs. 1, 16, 20, 24, 25.
1905 D, 393.
1906 A, 51.
1908 B, 144.
1909 D, (224).
1909 E, (244).
1912 F, 192, 527.
1913 A, 292.
Andrews, C. W. 1902 A, 295.
1906 A, 201.
1924 A, 306.
Arldt, T. 1907 D, 265, 409.
Boas, J. E. V. 1914 B, 586.
Bronn, H. G. 1862 C, 416.
Brown, A. E. 1878 A, 292.
Capellini, G. 1886 A, 39.
Depéret and Roman 1920 A, 5, 33, 37, 45, 47, text-figs. 1-3, 8, 11, 13.
Dollo, L. 1889 L, 416, figs.
1892 D, 118.
Doran, A. H. G. 1878 A, 469.
Fitzinger, L. J. 1842 A, 61.
Flot, L. 1885 A, 439, fig.
1886 A, 483, pls. xxvi-xxviii.
1887 A, 136.
Flower, W. H. 1874 B, 1, pl. i.
Frassetto, F. 1915 A, fig. 19.
Freund, L. 1905 A, 434.
1914 A, 360.
Gaudry, A. 1884 A, 373, pl. xvii.
Gervais, P. 1852 A, 142.
1859 A, 277.
Giebel, C. G. 1855 A, 83.
Heilmann, G. 1913 A, 58.
Kaup, J. J. 1840 A, 675.
Kellogg, R. 1924 C, 759, 762.
Kingsley, J. S. 1884 A, 214.
Krauss, F. 1862 B, 385, pls. vi, vii.
Lartet, E. 1866 A, 678.
Lepsius, G. R. 1881 A, pls. i-x.
Matthew, W. D. 1915 H, 439.
1916 B, 24.
Owen, R. 1845 B, 372, pl. xcvii.
Palmer, T. S. 1904 A, 307, 904.
Pictet, F. J. 1853 A, 373.
Reynolds, S. H. 1897 A, 352, 425, 514, 518.
Ryder, J. 1887 B, 475.
Schmidtgen, O. 1911 A, 221.
1912 A, 457, pl. xxix; text-figs. 1, 2.
Stromer, E. 1921 A, 41, 47, 50.
1923 A, 259.
Toula, F. 1896 A, 919.
Trouessart, E. L. 1905 A, 749.
Van Oort, E. D. 1903 A, 95.
1905 A, 21.
Weber and Abel 1928 A, 484, 498, 503, figs. 314, 331, 332.
Wilder, B. 1875 A, 111.
Woodward, A. S. 1923 C, 69, fig. 65.
Zigno, A. 1887 A, 728, pl. xxvii.
Zittel and Schlosser 1911 A, 542.
1923 A, 634.

Halitherium antiquusm (Leidy).

Hay, O. P. 1902 A, 583 (Trichechus).
Allen, G. M. 1923 A, 232 (Manatus).
1926 A, 455, pl. ii, figs. 1, 2; pl. iii, figs. 1-3.
Hay, O. P. 1919 C, 109, 110, pl. xxvi, figs. 2, 3 (Trichechus. This species?).
1923 A, 363, 381.
Matson and Clapp 1909 A, 136 (Manatus).
Palacký, J. 1922 C, 255 (Manatus).

Spencer, J. W. 1895 A, 137 (Manatus).
Trouessart, E. L. 1905 A, 748 (Trichechus).
Tuomey, M. 1848 A, 165, 166 ("Manatus." This species?).
Miocene (Phosphate beds); South Carolina, Florida.

Halitherium inornatum (Leidy).

Hay, O. P. 1902 A, 584.
Allen, G. M. 1923 A, 232.
Tuomey, M. 1926 A, 457 (Syn? of H. antiquum).
Palacký, J. 1902 C, 255 (Manatus).
Miocene (Phosphate beds); South Carolina.

Halitherium sp. indet.

Lydekker, R. 1887 A, 12 (This genus?). Phosphate beds; South Carolina.
Van Beneden, P. J. 1880 A, 31. Miocene?; mouth of Potomac.

HEMICAULODON Cope. Type *H. effodiens* Cope.

Hay, O. P. 1902 A, 583.
Heilprin, A. 1887 A, 340.
Palmer, T. S. 1904 A, 316, 904.
Trouessart, E. L. 1904 A, 751.

Hemicaulodon effodiens Cope.

Hay, O. P. 1902 A, 583.
Allen, G. M. 1923 A, 231.
Kellogg, R. 1924 C, 757.
Rhoads, S. N. 1903 A, 246.
Eocene (Shark River); New Jersey.

HYDRODAMALIDÆ Palmer.

Hay, O. P. 1902 A, 584.
Arldt, T. 1912 A, 748.
Brandt, J. F. 1833 A, 115 (Rytineæ).
Elliot, D. G. 1901 A, 5.
Grevé, C. 1905 A, 145.
Matsumoto, H. 1918 B, 71 (Rhytinidæ).
Palmer, T. S. 1904 A, 746, 905.
Trouessart, E. L. 1905 A, 752.
Weber, M. 1904 A, 739.
Weber and Abel 1928 A, 495, 503 (Rhytinidæ).

HYDRODAMALIS Retzius. Type *H. gigas* (Zimmerman).

Hay, O. P. 1902 A, 584.
Abel, O. 1904 A, 138, 193, 218 (Rhytina).
1908 A, 479.
1913 A, 309 (Rhytina).
1913 B, 751 (Rhytina).
1914 A, 216 (Rhytina).
1920 A, 446.
Allen, G. M. 1923 A, 235.
Andrews, C. W. 1906 A, 201 (Rhytina).
Arldt, T. 1907 D, 38 (Rhytina).
Beddard, F. E. 1900 A, 319 (Rhytina).
1902 A, 338 (Rhytina).
Bonaparte, C. L. 1832 A, 293 (Stellerus).
Bonsdorff, E. J. 1871 A, 318 (Rhytina).
Brandt, J. F. 1833 A, 103 (Rytina).
1862 D, 612 (Rhytina).
Bronn, H. G. 1849 A, 703 (Rytina).
Capellini, G. 1886 A, 51 (Rhytina).
Cuvier, F. 1836 A, 38 (Rytina).
Depéret and Roman 1920 A, 23 (Rhytina).
Dollo, L. 1889 L, 416 (Rhytina).
1892 D, 118 (Rhytina).
Doran, A. H. G. 1878 A, 464.
Elliot, D. G. 1901 A, 5.
Fischer, J. B. 1829 A, 503 (Rytina).
Freund, L. 1913 A, 258 (Rhytina).
Giebel, C. G. 1855 A, 84 (Rhytine).
1883 A, pls. xxxvii, lvi, lxi, lxix, lxxxix (Rhytine).
Grevé, C. 1905 A, 145.
Hay, O. P. 1915 B, 386.
Heilprin, A. 1887 A, 340 (Rhytina).
Kampfen, P. N. 1905 A, 634 (Rhytina).
Kellogg, R. 1925 B, 57, 61.
Kingsley, J. S. 1884 A, 210 (Rhytina).
Kükenthal, W. 1897 B, 144 (Rhytina).
Lepsius, G. R. 1881 A.
Leunis and Ludwig 1883 A, 277 (Rhytina).
Leydig, F. 1859 A, 684, 698 (Rhytina).
Lorenz, L. 1904 A, 1-11 (Rhytina).
Matsumoto, H. 1918 B, 67, 68 (Rhytina).
Matthew, W. D. 1916 B, 27 (Rhytina).
Meckel, J. F. 1825 A (Rytina).
Owen, R. 1868 A, 906 (Rhytina).
Palmer, T. S. 1904 A, 335, 905.
Pander and Alton 1826 A, 8 (Rytina).
Reynolds, S. H. 1897 A, 553, fig. 92 (Rhytina).
Ryder, J. 1887 B, 475 (Rhytina).
Schlosser, M. 1911 A, 163 (Rhytina).
Stromer, E. 1921 A, 52 (Rhytina).
Taschenberg, O. 1899 A, 4672 (Rhytina).
Toldt, C. 1905 A, 337 (Rhytina).
Trouessart, E. L. 1905 A.
Van Oort, E. D. 1903 A, 97 (Rhytina).
Weber, M. 1904 A, 739 (Rhytina).
Weber and Abel 1928 A, 495, 503 (Rhytina).
Winge, H. 1906 A, 176 (Rhytina).
Zittel and Schlosser 1911 A, 542 (Rhytina).
1923 A, 635 (Rhytina).

Hydrodamalis gigas (Zimmerman).

Hay, O. P. 1902 A, 584.
Abel, O. 1902 A, 181 (Rhytina stelleri).
1902 B, 515 (Rhytina stelleri).
1904 A, 138, 196 (Rhytina).
1908 B, 146 (Rhytina).
1912 F, 193, 526 (Rhytina).
1923 A, 225 (Rhytina stelleri).
Beddard, F. E. 1900 A, 47 (Rhytina).
Brandt, J. F. 1833 A, 103, pl. ii (Rhytina stelleri).
Brown, A. E. 1878 A, 298 (Rhytina borealis).
Cuvier, F. 1836 A, 41-71, 376 (Rytina borealis).
Depéret, C. 1914 A, 1859 (Rhytina stelleri).
Depéret and Roman 1920 A, 4, 29, 48, text-figs. 1, 8 (Rhytina stelleri).
Dilg, C. 1909 A, 84 (Rhytina stelleri).
Dybowski, —— 1883 A, 72 (Rhytina stelleri).

Elliot, D. G. 1901 A, 5.
Fraas, E. 1905 B, 378 (Rhytina stelleri).
Gervais, P. 1859 A, 276 (Rhytina stelleri).
Grevé, C. 1905 A, 146, figs. 1-5 (H. stelleri).
 1911 A, 37, fig. ("Steller's seekuh").
Kellogg, R. 1925 B, 58 (H. stelleri).
Kingsley, J. S. 1884 A, 211 (Rhytina stelleri).
Lankester, E. R. 1905 A, 20, figs. 13, 14 (Rhytina stelleri).
Lönnberg, E. 1907 A, 1, fig. 1 (Rhytina).
Lorenz, L. 1904 A, 7, pl. i, figs. 6, 7 (Rhytina).
 1904 B, 142.
Lucas, F. A. 1916 B, 316, fig. ("rytina").
Lydekker, R. 1901 C, 253 (Rhytina).
McIntosh, —— 1911 A, 81 ("Rhytina").
Meunier, S. 1903 A, 772 (Rhytina stelleri).
Moreau, L. J. 1900 A, 109 (Rhytina stelleri).
Osborn, H. F. 1910 B, 494, 559 (Rhytina stelleri).
Osburn, R. C. 1903 A, 659 (Rhytina stelleri).
Palacký, J. 1902 C, 255 (Rhytine stelleri).
Pütter, A. 1923 A, 221 ("steller's seekuh").
Rousseau, L. F. E. 1856 A, 8 (Rytina borealis).
Schmidt, O. 1886 A, 243 (Rhytina stelleri).
Sclater, P. L. 1897 A, 351 (Rhytina stelleri).
Shufeldt, R. W. 1889 D, 35, fig. (Rhytina stelleri).
Woodward, A. S. 1923 C, 68, fig. 64.
Zigno, A. 1887 A, 732, pl. xxvii, fig. 5 (Rhytina borealis).

TRICHECHIDÆ Gill.

Unless otherwise indicated the authors, as quoted, use the name Manatidæ for this family.

Hay, O. P. 1902 A, 583 (Trichechidæ).
Abel, O. 1904 A, 200.
 1907 G, 34 ("seekühe").
 1913 B, 729, 751*a*.
 1914 A, 122.
Arldt, T. 1907 D, 665.
 1912 A, 703, 748.
Brandt, J. F. 1833 A, 114 (Halicoreæ).
Cleland, J. 1863 B, 302 (Manati).
Cuvier, G. 1825 A, v, pt. 1, 235-271, pls. xix, xx ("lamantins").
Dollo, L. 1889 L, 421.
Elliot, D. G. 1901 A, 5.
Gervais, P. 1853 B, 35 ("siréniens").
Gray, J. E. 1821 A, 309.
Leche, W. 1887 A ("seekühe").
Lobley, J. L. 1908 A, 109.
Matson and Sanford 1913 A, 146 ("manatees").
Matsumoto, H. 1918 B, 71.
Palmer, T. S. 1904 A, 774, 833 (Trichechidæ).
Pander and Alton 1826 A, 8 ("lamantine").
 1827 A, 1 ("seekühe").
Trouessart, E. L. 1905 A, 748.
Wallace, A. R. 1876 A, II, 210.
Weber, M. 1904 A, 738.
Weber and Abel 1928 A, 503.
Winge, H. 1906 A, 71, 173 (Manatini).
Zittel and Schlosser 1911 A, 542.
 1923 A, 634, 636.

TRICHECHUS Linnæus. Type *T. manatus* Linnæus.

Unless otherwise indicated the authors, as quoted, employ the name *Manatus* for this genus.

Hay, O. P. 1902 A, 583 (Trichechus).
Abel, O. 1904 A, 138, 200, 204.
 1908 A, 479 (Manatus, Trichechus).
 1908 B, 147.
 1908 G, (43).
 1909 D, (225).
 1912 F, 684.
 1913 A, 309.
 1920 A, 445.
 1921 A, 302.
Adloff, P. 1903 A, 367.
 1910 B, 246.
Aichel, O. 1918 A, 502.
 1918 B, 1-109, pls. iv, v.
 1926 A, 43.
Albrecht, P. 1883 B, 35.
Ameghino, F. 1904 B, 51.
 1906 A, 407 (Trichechus).
Anderson, R. J. 1909 A, 745.
Andrews, C. W. 1902 A, 293.
 1906 A, 201.
Arldt, T. 1907 C, 674.
 1907 D, 154.
Beddard, F. E. 1902 A, 335.
Beyer, H. 1908 A, 82 ("seekuh").
Bolk, L. 1913 A, 89.
Bonaparte, C. L. 1832 A, 293.
Brandt, J. F. 1833 A, 115.
Bronn, H. G. 1848 A, 700.
Bronn, H. G. 1849 A, 703.
Broom, R. 1901 B, 739 ("manati").
Brown, A. E. 1878 A, 292.
Carnot, A. 1892 A, 1190, 1191 ("lamantin").
Cuvier, F. 1836 A, 6.
Cuvier, G. 1805 A.
 1825 A, v, pt. 1, 242-253, pl. xix ("lamantins").
Dependorf, T. 1898 A, 393, 397.
 1907 A, 560.
Dilg, C. 1909 A, 85.
Dollo, L. 1889 L, 416.
 1892 D, 118.
Doran, A. H. G. 1878 A, 468, pl. lxiii.
Eimer, G. H. T. 1901 A, 259.
Elliot, D. G. 1901 A, 5.
Fisher, J. B. 1829 A, 501.
Fitzinger, L. J. 1842 A, 66.
Flower, W. H. 1874 B, 2.
Fraas, E. 1905 B, 378.
Freund, L. 1904 A, 372.
 1905 A, 434.
 1908 A.
 1911 A, 385.
 1912 A, 557.
 1913 A, 258.
 1914 A, 360.
Giebel, C. G. 1855 A, 83.
 1883 A, pls. xxxvi, lxvi.
Gill, T. 1907 A, 494 (Trichechus).
Gottlieb, H. 1914 A, 212.
Gregory, W. K. 1920 A, 182.

Grobben, K. 1904 A, 142.
Gudernatsch, J. F. 1909 A, 225.
Hanson, F. B. 1919 B, 81.
Hay, O. P. 1915 B, 385 (Trichechus).
1922 G, 392.
Heilmann, G. 1914 A, 90.
Heilprin, A. 1887 A, 339, 340 ("manatee").
Hennicke, C. 1902 A, 160.
Hogben, L. T. 1919 A, 76.
Howes and Harrison 1893 A, 790.
Humboldt, A. 1838 A, 1.
Humphreys, J. 1908 A, 8 ("manatee").
Kampfen, P. N. 1905 A, 633, fig. 82.
Kehrer, F. A. 1896 A, 357, fig. 40.
Kellogg, R. 1925 B, 64.
Kingsley, J. S. 1884 A, 210.
1925 A, 219, fig. 230.
Köstlin, O. 1844 A.
Krauss, F. 1862 B, 389.
Kükenthal, W. 1897 B, 140.
1897 C, 182.
1913 A, 684.
Leche, W. 1887 A, pl. xciv.
1900 A, 1000.
Leunis and Ludwig 1883 A, 276.
Leydig, F. 1859 A, 684.
Lorenz, L. 1904 A, 9.
Marcus, H. 1921 A, 571, pls. xviii, xix.
Martins, C. 1857 A, 69 ("lamantins").
Matsumoto, H. 1918 B, 67, 68.
1923 A, 107, 111.
Matthes, E. 1912 B, 489.
1921 B, 142.
1921 C, 116.
Matthew, W. D. 1915 A, 256.
1916 B, 24.
Meckel, J. F. 1825 A.
Miller, G. S. 1924 C, 503.
Osborn, H. F. 1907 G, 189, fig. 19 (Trichechus).
1910 B, 445, 559.
Owen, R. 1868 A, 892.
Palmer, T. S. 1904 A, 688, 834 (Trichechus).
Peters, W. 1872 A, 15 (Trichechus).
Pocock, R. I. 1916 G, 547.
Pohle, H. 1921 A, 116.
Reynolds, S. H. 1897 A, 546.
Rogenhofer, A. 1908 A, (43).
Rousseau, L. F. E. 1856 A, 2.
Scharff, R. F. 1911 A, 279, 360 (Trichechus).
Schlosser, M. 1911 A, 163.
Schmidt, O. 1886 A, 242.
Sclater, P. L. 1897 A, 351.
Scott, W. B. 1913 A, 442.
Seeley, H. G. 1876 C, 177.
Stannius, H. 1846 B, 2 pls. ("manati").
Stromer, E. 1921 A, 51.
Terra, P. 1911 A, 340.
Tomes, C. S. 1878 A, 34 ("manatee").
Trouessart, E. L. 1905 A, 748.
Van Oort, E. D. 1903 A, 95.
Vicq-d'Azyr, F. 1792 A, cvii (Manatini).
Wagner, R. 1843 A.
Wallace, A. R. 1876 A I, 130; II, 210.
Weber, M. 1904 A, 738.
Weber and Abel 1928 A, 483, 495, figs. 313, 315, 318, 322.
Weber and Burlet 1927 A, 143, 237.
Wilder, B. 1875 A, 111.
Winge, H. 1906 A, 176.
Wright, G. F. 1911 B, 436 ("sea-cow").
Zittel and Schlosser 1911 A, 542.
1923 A, 634.

Trichechus? giganteus (DeKay).

DeKay, J. C. 1842 C, 123 (Manatus).
Allen, G. M. 1923 A, 231 (Manatus).
Case, E. C. 1904 D, 56, pl. xxvi, fig. 1.
Palmer, W. 1917 A, 120 (Hydrodomalis sp.).
Shattuck, G. B. 1904 A, xciv.
Trouessart, E. L. 1905 A, 748.

Upper Miocene (Calvert); Maryland.

The type of this species may belong to a cetacean.

Trichechus latirostris Harlan.

Harlan, R. 1823, Jour. Acad. Nat. Sci. Phil., III, 394.
Hay, O. P. 1902 A, 584 (T. manatus).
Abel, O. 1904 A, 138, 146, 149, 172, 191, pl. iv, figs. 1*a*, 1*b*; pl. vii, figs. 6-10; text-figs. 14, 15 (Manatus latirostris).
1907 G, 9, 31, figs. 6, 24 (Manatus americanus).
1908 A, 494, fig. 24 (M. latirostris).
1908 E, 403 (M. latirostris).
1912 F, 114, 193 (M. latirostris).
Anderson, R. J. 1898 A, 765 ("manatee").
1908 A, 547 ("manatee").
Beddard, F. E. 1897 B, 47 (Manatus).
1900 A, 317 ("manatee").
Brown, A. E. 1898 A, 293 (M. latirostris).
Camerano, L. 1915 A, 6, pl. iii, fig. 5 (T. manatus).
Chapman, H. C. 1875 A, 452 ("manatee").
Conklin, W. A. 1873 A, 166 (M. latirostris).
Crane, A. 1881 A, 456, fig. (M. americanus).
Cuvier, F. 1836 A, 7, pls. i-iii (M. americanus).
Dart, R. A. 1923 A, 620 (T. manatus).
Dilg, C. 1909 A, 85 (M. latirostris).
Elliot, D. G. 1901 A, 6, pl. iii (M. latirostris).
Fischer, J. B. 1829 A, 502 (Manatus latirostris).
Gudernatsch, J. F. 1909 A, 225, figs. A-C (M. latirostris).
Hay, O. P. 1923 A, 376 (T. manatus).
Kingsley, J. S. 1884 A, 212.
Kükenthal, W. 1897 B, 140 (T. latirostris).
Lorenz, L. 1904 A, 9, pl. i, figs. 8, 9 (T. manatus).
1904 B, 143 (T. manatus).
Lucas, F. A. 1916 B, 318 ("manatee").
Matthes, E. 1912 B, 489 (M. latirostris).
Miller, G. S. 1924 C, 503 (T. latirostris).
Murie, J. 1880 A, 19, pls. v-ix (M. americanus).
Oswald, F. 1911 A, 410 (M. americanus).
Pander and Alton 1826 A, 9 (Manatus).
1827 A, 1 ("lamantin").
Reche, O. 1905 B, 243 (M. americanus).
Ryder, J. 1887 B, 475 ("manatee").
Sellards, E. H. 1916 B, 104 (T. manatus).
Thomas and Lydekker 1898 A, 814 ("manatee").
Wilder, B. 1875 A, 105 ("manatee").

Recent; eastern coast of Florida: Pleistocene and possibly earlier; Florida.

Some of the citations to T. latirostris may refer to the West Indian species.

Trichechus sp. indet.

Hay, O. P. 1902 A, 584.
Rhoads, S. N. 1903 A, 246.

Order NOTOUNGULATA Roth.

Roth, S. 1903 A, 11, 12.
Ameghino, F. 1893 A, 276 (Toxodontia).
Gregory, W. K. 1910 A, 370, 383, 448, 466.
Hennig, E. 1921 A, 260 (Notungulata).
Lydekker, R. 1893 D, pt. 3, 2 (Toxodontia).
Matthew, W. D. 1910 G, 152.
1915 F, 429.
1928 B, 977.
Matthew and Granger 1925 A, 2 (Notungulata).
Osborn, H. F. 1907 G, 16 (Notungulata).
Osborn, H. F. 1907 H, 613 (Notungulata).
1910 B, 560.
Scott, W. B. 1896 C, 308 (Toxodontia).
1912 A, 287 (Toxodontia).
Weber, M. 1904 A, 702 (Toxodontia).
Weber and Abel 1928 A, 422, 504.
Woodward, A. S. 1898 B, 307 (Ancylopoda).
Zittel, K. A. 1890 A, 474 (Toxodontia).
Zittel and Schlosser 1911 A, 511.
1923 A, 603, 636.

Suborder ENTELONYCHIA Ameghino.

Ameghino, F. 1893 A, 312.
Matthew, W. D. 1915 F, 429.
1921 D, 214.
Scott, W. B. 1912 A, 239.
Scott, W. B. 1913 A, 482, 680.
Weber and Abel 1928 A, 509.
Zittel and Schlosser 1911 A, 521.
1923 A, 613.

ARCTOSTYLOPIDÆ Schlosser.

Schlosser, M. 1923 in Zittel and Schlosser 1923 A, 614.
Matthew, W. D. 1915 F, 429 (Isotemnidæ).
Matthew and Granger 1925 A, 2, 5.
Weber and Abel 1928 A, 540.

ARCTOSTYLOPS Matthew. Type *A. steini* Matthew.

Matthew, W. D. 1915 F, 429.
1916 I, 109.
1921 D, 214.
1928 B, 977, 983.
Matthew and Granger 1925 A, 2, 4.
Zittel and Schlosser 1923 A, 605, 614, 666, 684.

Arctostylops steini Matthew.

Matthew, W. D. 1915 F, 429, pl. xv; text-figs. 1-3.
1914 K, 167 ("notungulate").
1928 B, 960.
Weber and Abel 1928 A, 510, fig. 342.
Zittel and Schlosser 1923 A, 614, fig. 758.
Lower Eocene (Wasatch); Wyoming.

Order ANCYLOPODA Cope.

Hay, O. P. 1902 A, 690.
Abel, O. 1912 F, 388.
1913 B, 730, 755a.
1914 A, 122.
1919 A, 868.
1920 A, 453.
1920 B, 23.
Ameghino, F. 1897 B, 261.
1901 A, 406.
1902 B, 10 ("ancylopodos").
1905 C, 381 ("ancilopodos").
Andrews, C. W. 1923 B, 1095.
Arldt, T. 1907 D, 619.
Beddard, F. E. 1902 A, 211.
Cope, E. D. 1891 N, 67, 76, 90.
Gregory, W. K. 1910 A, 99, 351, 397.
Howes, G. B. 1902 A, 523.
Kampfen, P. N. 1905 A, 627.
Koken, E. 1901 B, 224.
Major, C. J. F. 1899 B, 64.
Matthew, W. D. 1910 G, 152.
Osborn, H. F. 1893 M, 95 (Ord. Ancylopoda; subord. Perissonychidæ).
1902 E, 356, fig. 1.
1907 G, 15, 184.
1910 B, 68, 558.
1913 B, 264.
1925 B, 18.
Palacký, J. 1902 A, 3.
Pilgrim, G. E. 1913 A, 298.
Scott, W. B. 1913 A, 224, 238, 291, 353, 675.
Trouessart, E. L. 1905 A, 587.
Weber, M. 1904 A, 588, 694.
Weber and Abel 1928 A, 426, 626, 686.
Woodward, A. S. 1904 B, 159.
Zittel and Schlosser 1923 A, 613.

Superfamily CHALICOTHERIOIDÆ, new name.

The authors, as quoted, use the name Chalicotherioidea.

Hay, O. P. 1902 A, 690.
Abel, O. 1920 B, 23.
Case, E. C. 1898 C, 833.
1899 B, 168.
Gill T. 1872 B, 71.
Gregory, W. K. 1910 A, 397.
1920 A, 247.
Holland and Peterson 1913 A, 198.
Merriam, J. C. 1914 E, 818.
Osborn, H. F. 1913 B, 264.
Peterson, O. A. 1907 A, 733.
Schlosser, M. 1901 B, 300.
Weber and Abel 1928 A, 688.

CHALICOTHERIIDÆ Gill.

Hay, O. P. 1902 A, 690.
Abel, O. 1912 F, 645 ("chalicotheriden").
1913 B, 730, 755a.
1914 A, 148, 286.
1920 A, 453 ("chalicotheriiden").
1921 A, 284 ("chalicotheriiden").
1922 C, 270.
Ameghino, F. 1893 B, 442.
1893 D, 14.
Arldt, T. 1907 D, 645 (Chalicotheridæ).
1912 A, 700, 746 (Chalicotheridæ).
Cope, E. D. 1880 U, 152.
Depéret, C. 1892 A, 61 ("chalicothéridés").
1906 B, 1122 ("chalicothéridés").
1907 B ("chalicothéridés").
1908 A, 303.
1912 A, 707 ("chalicothéridés").
Lydekker, R. 1915 C, 622.
Matthew, W. D. 1909 C, 104, 108, 111, 113, 115, 119.
1924 C, 152.
1926 C, 168, 169, fig. 26 ("chalicotheres").
Matthew, W. D. 1928 B, 968, 979, fig. 15 ("chalicotheres").
O'Harra, C. C. 1920 A, 96.
Osborn, H. F. 1905 H, 218.
1905 I, 107.
1909 D, 80, 123.
1910 B, 610.
Palacký, J. 1902 A, 3 ("chalicotherien").
1903 B, 311, 313 ("chalicotheriden").
Reynolds, S. H. 1897 A, 509, 519.
Sauvage, H. E. 1882 A, 105.
Schlosser, M. 1902 J, 257 ("chalicotheriiden").
Scott, W. B. 1913 A, 291, 354, 678.
1916 A, 117 ("chalicotheres").
Seeley, H. G. 1886 A, 476.
Trouessart, E. L. 1905 A, 595 (Chalicotheridæ).
Weber, M. 1904 A, 585.
Weber and Abel 1928 A, 426.
Weber and Burlet 1927 A, 136.
Winge, H. 1906 A, 71, 155 (Chalicotheriini).
Zittel and Schlosser 1911 A, 467.
1923 A, 554, 602.

MACROTHERIINÆ Holland and Peterson.

Holland and Peterson 1913 A, 202.
Winge, H. 1906 A, 71, 155 (Chalicotheriini).
Zittel and Schlosser 1923 A, 555.

CHALICOTHERIUM Kaup. Type *C. goldfussi* Kaup.

Hay, O. P. 1902 A, 691.
Abel, O. 1912 F, 388, 389.
1920 B, 23-60, figs. 3, 5, 7, 10-12.
1921 A, 282, 290, figs. 105-108.
1922 C, 119, figs. 108-111.
1926 B, 359.
Arldt, T. 1907 D, 203, 253.
Barbour, E. H. 1906 C, 781.
Beddard, F. E. 1902 A, 211.
Bronn, H. G. 1848 A, 282.
1849 A, 706.
Case, E. C. 1899 B, 168.
Depéret, C. 1892 A, 61.
1907 B.
Dollo, L. 1889 C, 680.
Falconer, H. 1844 A, 239.
1868 A, I, 192, 208, 221.
Falconer and Murchison 1852 A, 91.
1867 A, 103.
Filhol, H. 1879 A, 206.
Gaudry, A. 1891 C, 89.
Gervais, P. 1859 A, 169.
Giebel, C. G. 1855 A, 69.
Heilprin, A. 1887 A, 372.
Hoernes, R. 1886 A, 669.
Koken, E. 1901 B, 223.
Lambe, L. M. 1904 C, 29.
1905 D, 370 A.
Lemoine, V. 1889 A, 259.
Matthew, W. D. 1928 B, 979, fig. 15.
Merriam, J. C. 1907 A, 381.
Osborn, H. F. 1893 M, 95.
Osborn, H. F. 1905 H, 201.
1907 G, 87, 184.
1910 B, 216, 357, 558.
Palmer, T. S. 1904 A, 178, 909.
Pictet, F. J. 1853 A, 337.
Reynolds, S. H. 1897 A, 360, 432, 508, 525, fig. 106.
Sauvage, H. E. 1882 A, 106.
Schlosser, M. 1883 B, 160.
1883 D, 164.
1903 I, 75, 181, 209, 211, 219.
Scott, W. B. 1896 D, 50.
1913 A, 354.
Trouessart, E. L. 1905 A, 596.
Weber, M. 1904 A, 694.
Weber and Abel 1928 A, xviii, 686, 688, fig. 477.
Zittel and Schlosser 1911 A, 468.
1923 A, 555, fig. 690.

Chalicotherium bilobatum Cope.

Hay, O. P. 1902 A, 691.
Lambe, L. M. 1904 C, 29, 38, 51.
1905 D, 370 A.
1908 A, 11, 54, pl. iii, figs. 7-9.
Matthew, W. D. 1909 C, 104 (This genus?).
Palacký, J. 1902 A, 3.
Peterson, O. A. 1906 C, 62.
Lower Oligocene (White River); Canada.

Chalicotherium sp. indet.

Peterson, O. A. 1928 A, 110, fig. 20 (This genus?).
Miocene or Pliocene (Brown's Park); Colorado.

MOROPODIDÆ Marsh.

Marsh, O. C. 1877 D, 249.
Holland and Peterson 1913 A, 221.

MOROPODINÆ Holland and Peterson.

Holland and Peterson 1913 A, 201, 202, 206.
Abel, O. 1920 B, 47.
Zittel and Schlosser 1923 A, 554.

MOROPUS Marsh. Type *M. distans* Marsh.

Hay, O. P. 1902 A, 691.
Abel, O. 1920 B, 28.
1921 A, 282, 290.
1926 B, 359, 373, 452.
Barbour, E. H. 1908 A, 209.
1908 B, pls. iii, iv, vi-ix.
Beddard, F. E. 1902 A, 211.
Christman, E. S. 1921 A, 623.
Cooper, C. F. 1920 A, 357.
Eastman, C. R. 1914 B, 689.
1915 C, 658.
Gregory, W. K. 1910 A, 397.
1920 A, 195.
Haug, E. 1911 A, 1705.
Heilprin, A. 1887 A, 338.
Hoernes, R. 1886 A, 664.
Holland and Peterson 1913 A, 272, 4 text-figs.
Lee, Stone, Gale 1915 A, 34, pl. vi.
Matthew, W. D. 1901 B, 374.
1909 C, 111, 113, 119.
1913 C, 287.
1914 L, 269.
1917 A, 576.
1918 F, 121.
1923 C, 408.
1924 E, 748.
1928 B, 979, fig. 15.
Merriam, J. C. 1911 B, 207, 208, 215.
Moodie, R. L. 1923 B, 126, fig. 10, pl. xxii.
Osborn, H. F. 1907 F, 872.
1909 D, 72, 74.
1910 B, 224, 230, 235, 286, 558.
1912 G, 246-249.
1918 A, 16.
1918 B, 131.
1919 C, 250.
Palacký, J. 1902 A, 3.
1903 B, 311.
Palmer, T. S. 1904 A, 432, 909.
Peterson, O. A. 1906 C, 60.
1907 A, 734.
Schlosser, M. 1899 U, 461.
Schmidt, O. 1886 A, 125.
Schuchert and Levene 1927 A, 338, fig.
Scott, W. B. 1913 A, 238, 356, fig. 185.
Sternberg, C. H. 1917 A, 21 (Morophus).
Trouessart, E. L. 1905 A, 596.
Weber and Abel 1928 A, 687, fig. 475.
Zittel and Schlosser 1911 A, 468.
1923 A, 555, 672.

Moropus distans Marsh.

Hay, O. P. 1902 A, 691.
Holland and Peterson 1913 A, 207, 217, 221, 1 fig.
Matthew, W. D. 1909 C, 108.
Merriam, J. C. 1911 B, 271.
Merriam and Sinclair 1907 A, 186.
Peterson, O. A. 1906 B, 491.
1907 A, 734, figs. 1-4.
Sinclair, W. J. 1906 A, 66.
Upper Oligocene (John Day); Oregon.

Moropus elatus Marsh.

Hay, O. P. 1902 A, 691.
Abel, O. 1919 A, 872, figs. 668, 669.
1920 B, 28, 39, figs. 1, 9, 11.
1925 A, 63, fig. 41.
1926 B, 376, figs. 243, 452.
Anonymous 1910 A, 137.
Barbour, E. H. 1908 A, 215 (M. elatus); 211, 215, pls. i, ii; text-figs. 1-5 (M. cooki).
1908 B, pls. i, ii, v, x, xi (M. cooki).
1909 A, 252 (M. cooki).
Cockerell, T. D. A. 1923 D, 271 (M. cooki, M. elatus).
Cook, H. J. 1912 D, 41, 42 (M. elatus?, M. cooki).
Cooper, C. F. 1920 A, 359.
Eastman, C. R. 1912 C, 658.
Figgins, J. D. 1924 A, 16, fig. ("Moropus").
Holland, W. J. 1908 F, 809, fig. 2.
Holland and Peterson 1913 A, 206, 217, 222, pls. xlviii-l, lii-lxxvii; 77 text-figs.; 223 (M. elatus a syn.).
Matthew, W. D. 1909 C, 113 (This species?).
1923 D, 359, figs. 7, 11.
Moodie, R. L. 1923 B, 134, fig. 9.
O'Harra, C. C. 1920 A, 98, 156, pls. xvii, xxxii (M. elatus); 97, 156, pl. xxxi; text-fig. 39 (M. cooki).
Osborn, H. F. 1918 B, 131 (M. cooki).
1919 C, 251, fig. 1 (M. cooki).
Palacký, J. 1903 B, 317.
Peterson, O. A. 1906 C, 46, 60.
1907 A, 734, figs. 6-26.
1913 A, 673.
Scott, W. B. 1913 A, 240, fig. 130.
Weber and Abel 1928 A, xviii, 686, 688, fig. 477.
Zittel and Schlosser 1923 A, 555, fig. 689.
Middle Miocene (Harrison); Nebraska.

Moropus hollandi Peterson.

Peterson, O. A. 1913 A, 673.
Holland and Peterson 1913 A, 217, 232, 3 figs.
O'Harra, C. C. 1920 A, 156.
Middle Miocene (Harrison); Nebraska.

Moropus matthewi Holland and Peterson.

Holland and Peterson 1913 A, 217, 230.
Matthew, W. D. 1924 C, 153 ("Moropus").
O'Harra, C. C. 1920 A, 156.
Middle Miocene; Colorado.

Moropus maximus Holland and Peterson.

Holland and Peterson 1913 A, 217, 230, 1 fig. (This genus?).
Lower Miocene (Harrison); Nebraska.

Moropus maximus Holland and Peterson.

Holland and Peterson 1913 A, 217, 234.
Matthew, W. D. 1924 C, 153 ("Moropus").
Middle Miocene (Virgin Valley); California.

Moropus oregonensis Leidy.

Leidy, J. 1873 B, pl. ii, fig. 1 (Lophiodon).
Holland and Peterson 1913 A, 217, 219, fig. 5.
Matthew, W. D. 1909 C, 108.
Miocene (Bridge Creek); Oregon.

Moropus parvus Barbour.

Barbour, E. H. 1908 B, 222, text-fig. 5.
1909 A, 252.
Cook, H. J. 1912 D, 41.
Miocene (Harrison); Nebraska.

Moropus petersoni Holland.

Holland, W. J. 1908 F, 809, fig. 1.
Cook, H. J. 1912 D, 41.
Holland and Peterson 1913 A, 217, 226, 249, pl. li; 24 text-figs.
O'Harra, C. C. 1920 A, 156.
Miocene (Harrison); Nebraska.

Moropus senex Marsh.

Hay, O. P. 1902 A, 691.
Holland and Peterson 1913 A, 206, 217, 222, 1 fig.
Matthew, W. D. 1909 C, 108.
Merriam, J. C. 1911 B, 271.
Merriam and Sinclair 1907 A, 186.
Peterson, O. A. 1907 A, 734, fig. 5.
Sinclair, W. J. 1906 A, 66.
Oligocene (John Day); Oregon.

Moropus sp. indet.

Buwalda, J. P. 1916 A, 77. Mohave desert; California.
Loomis, F. B. 1923 A, 222. Miocene (Harrison); Nebraska.
Matthew, W. D. 1901 B, 358.
1909 C, 115. Middle Miocene; Colorado.
Merriam, J. C. 1911 B, 205, 267, figs. 39-45 (This genus?). Miocene (Virgin Valley); Nevada.
Osborn, H. F. 1913 B, 263, figs. 2, 3c (This genus?).

Order PERISSODACTYLA Owen.

Hay, O. P. 1902 A, 607.
Abel, O. 1912 D, 604 ("mesaxonier").
1912 F, 232 ("mesaxonier").
1913 B, 729, 752b.
1914 A, 122, 150, 234.
1919 A, 853.
1920 A, 449.
1924 B, 18 ("perissodactylen").
1926 B, 398 ("perissodactylen").
Ameghino, F. 1889 A, 1022.
1897 B, 262 ("périssodactyles").
1906 A, 300 ("périssodactyles").
1912 B, 172 ("périssodactyles").
Arldt, T. 1907 D, 672.
Bayer, F. 1897 A, 147 ("périssodactyles").
Beddard, F. E. 1902 A, 235.
Behlen, H. 1906 A ("unpaarhufer").
Bensley, B. A. 1901 C, 252.
Bertelli, D. 1909 A, 162 ("perissodattili").
Black, D. 1915 A, 353.
Blainville, H. M. D. 1819 A, 41 ("groupe à système de doigts impairs").
Boas, J. E. V. 1884 B, 392 ("perissodactylen").
1914 B, 577, 595 ("perissodactylen").
Branca, W. 1907 A, 9 ("perissodactylen").
Broom, R. 1915 A, 162.
Brown, A. E. 1904 B, 55.
Burmeister, H. 1879 B, 474 (Imparidigitata).
Carus, V. 1875 A, 156.
Clark and Sonntag 1926 A.
Cope, E. D. 1885 BB, 72.
1891 N, 84, 89, 90.
Depéret, C. 1904 B, 43 ("imparidigités").
1907 B ("imparidigités").
1912 A, 710 ("perissodactyls").
Doran, A. H. G. 1878 A, 419.
Eimer, G. H. T. 1901 A, 257.
Fairchild, H. L. 1894 A, 207, 208.
Fischer, E. 1903 A, 713 ("perissodactylen").
Flower, W. H. 1873 B, 95 ("perissodactyles").
1892 A, 13.
Frassetto, F. 1915 A ("perissodattili").
Freund, L. 1906 A, 115 ("einhufer").
1911 A, 386.
Gaudry, A. 1908 A, 1133 ("perissodactyles").
Gaupp, E. 1905 D, 1037.
1913 A, 125.
Gidley, J. W. 1912 B, 179.
Giebel, C. G. 1883 A ("einhufer").
Gregory, W. K. 1910 A, 347, 385, 387-397, 450, 457 (Perissodactyla); 466 (Mesaxonia).
1912 F, 290 ("perissodactyls").
1914 D, 294.
1916 A, 248 ("perissodactyls").
1920 A, 193, 243, 247.
1927 J, 443 ("perissodactyls").
Haeckel, E. 1868 A, 475.
1873 A, 544, 554.
Hasse and Schwarck 1870 A, 129 (Solidungula).
Hay, O. P. 1912 D, 580.
1914 A, 143.
Heilprin, A. 1887 A, 368.
Hensel, R. 1879 A, 529 ("einhufer").
Hescheler, K. 1906 A, 31 ("unpaarhufer").
Hilzheimer, M. 1913 A, 567 ("unpaarhufer").
Hoernes, R. 1886 A, 665.
Hogben, L. T. 1919 A, 75 ("perissodactyls").
Huxley, T. H. 1863 E, 555.
1870 F, 527.
1880 E, 460 (Perissodactyla).
Jaekel, O. 1911 A, 241 (Mesodactyli).
Kampfen, P. N. 1905 A, 573.
Keuchenius, P. E. 1913 A, 449.
Kingsley, J. S. 1925 A, 214, 297, fig. 320.
Knottnerus-Meyer, T. 1907 A, 4, 96, 101.
Koken, E. 1893 B, 482, 500 ("unpaarhufer").
Kraglievich, L. 1926 C, 75.
Kükenthal, W. 1913 A, 682.

Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 267.
Lull, R. S. 1904 C, 2.
1917 B, 295.
Lydekker, R. 1907 B, 4.
1916 A, 1.
Major, C. J. F. 1880 A, 22, 36 (Imparidigitata).
1899 B, 62.
Matthew, W. D. 1906 B, 361 ("perissodactyls").
1909 C, 133.
1909 D, 301, 309, 333, 549.
1910 G, 152 ("perissodactyls").
1912 A, 159.
1915 A, 234, fig. 16.
1915 K, 448 ("perissodactyls").
1917 A, 573.
1921 D, 214.
1926 C, 169 ("perissodactyls").
1928 B, 948, 960, 963, 979.
Mead, C. S. 1906 A, 481.
Meckel, F. 1809 A, tab. 1 (Solipeda).
1823 A, 1 ("einhufer").
Mitchell, P. C. 1905 A, 476.
O'Harra, C. C. 1920 A, 90 ("perissodactyls").
Osborn, H. F. 1902 E, 356, fig. 1.
1905 H, 214, fig. 2.
1905 I, 99.
1905 N, 242.
1907 G, 15, 72, 76, 174.
1909 D, 133.
1910 B, 627.
1918 C, 133.
1925 B, 18.
1925 C, 750.
Owen, R. 1857 E.
1858 A, 27.
1868 A, 898.
Palacký, J. 1903 B, 305.
Parker and Haswell 1897 A, 452, 505.
Perna, G. 1906 A, 122.
Perrier, E. 1920 A, 354 ("périssodactyles").
Pictet, F. J. 1853 A, 294 ("périssodactyles").
Puccioni, N. 1908 A, 41 ("perissodattili").
Rehs, J. 1914 A, 2, 46.
Reynolds, S. H. 1897 A, 487, 550.
Rosenberg, A. 1873 A, 132.
Schlosser, M. 1898 B, 360.
1903 I, 179.
1905 A, 324.
1911 A, 165 ("perissodactylen").
Schmidt, O. 1886 A, 127, 135, 189.
Schwarz, E. 1924 A, 421 ("perissodactyls").
Scott, W. B. 1896 D, 47, 57 ("perissodactyls").
1913 A, 234, 255, 266, 270, 275, 280, 288, 514, 687 (Perissodactyla); 60, 290 (Chelodactyla).
1916 A, 116.
1928 B, 257.
Seeley, H. G. 1878 A, 224.
1886 A, 466, 474.
Sefve, I. 1913 A, 362 ("mesaxonier").
1914 A, 240 ("perissodactylen").
Stehlin, H. G. 1905 A, 566 ("perissodactylen".)
1916 B, 1531 ("perissodactylen").
Steinmann, G. 1907 A, 487.
Stromer, E. 1912 A, 204, 244 (Mesaxonia).
1916 A, 404, 413.
Taschenberg, O. 1899 A, 4434.
Terra, P. 1911 A, 308.
Thacker, A. G. 1922 A, 600, 603.
Tornier, G. 1888 A, 299 ("perissodactylen").
1894 B, 103 ("perissodactylen").
Trouessart, E. L. 1905 A, 604.
Van Bemmelen, J. F. 1918 A, 572 ("perissodactyles").
Wallace, A. R. 1876 A, I, 135.
Weber, M. 1904 A, 588, 591 (Diplarthra, in part; Mesaxonia); 597 (Perissodactyla).
Weber and Abel 1928 A, 426, 626, 631, 649, 658, 892.
Weber and Burlet 1927 A.
Wilder, B. 1872 B, 320.
Winge, H. 1906 A, 71.
Woodward, A. S. 1898 D, 335.
1916 A, lxix ("perissodactyls").
Woodward, H. 1904 B, 159.
Wright, R. R. 1883 A, 235.
Zittel and Schlosser 1911 A, 444.
1923 A, 528, 669.

Superfamily EQUOIDÆ, new form.

Hay, O. P. 1902 A, 608 (Equoidea).
Arloing, S. 1867 A, 72 ("solipèdes").
Bonaparte, C. L. 1832 A, 292 (Solidungula).
Burmeister, H. 1879 B, 475 (Solidungula).
Carus and Engelmann 1861 A, 1297 (Solipeda).
Case, E. C. 1898 C, 833 (Hippoidea).
1899 B, 163 (Hippoidea).
Cope, E. D. 1891 N, 86 (Equoidea).
Flower, W. H. 1873 B, 96 (Solidungula).
Gidley, J. W. 1912 B, 179 (Hippoidea).
Gregory, W. K. 1920 A, 247 (Hippoidea).
Hay, O. P. 1914 A, 145 (Equoidea).
Osborn, H. F. 1910 B, 555 (Hippoidea).
Owen, R. 1857 E (Solidungula).
Schlosser, M. 1901 B, 300 (Hippoidea).
Trouessart, E. L. 1905 A, 635 (Hippoidea).
Weber, M. 1904 A, 614, 619 (Hippoidea); 612 (Solidungala).
Weber and Abel 1928 A, 426, 674 (Hippoidea).
Weber and Burlet 1927 A, xv (Hippoidea).
Winge, H. 1906 A, 70, 143, 151 (Equidæ).

EQUIDÆ Gray.

The writer is indebted to Dr. W. D. Matthew for the arrangement of the Equidæ here adopted.

Gray, J. E. 1821 A, 307.
Hay, O. P. 1902 A, 608.
Abel, O. 1902 B, 516 ("equiden").
1904 B, 741 ("equiden").
1910 B, (186) ("pferde").
Abel, O. 1912 F, 232 ("pferde").
1913 B, 730, 753b.
1914 A, 244.
1919 A, 860.
1920 A, 451.
1921 A, 181, 252, 261 ("pferde")
1926 B, 443.

Abel, O. 1926 D, 63 ("equiden").
1926 H, (159) ("equiden").
1928 B, 1-102.
Adloff, P. 1903 A, 359 ("pferde")
Ameghino, F. 1889 A, 1012.
1893 B, 442.
1893 D, 15.
1904 C, 37.
1906 A, 285.
1912 B, 170 ("equides").
Anderson, R. J. 1911 A, 639.
1912 D, 253.
1912 E, 907.
Andrews, C. W. 1903 C, 2 ("horses").
Anthony, R. 1912 A ("équidés").
Antonius, O. 1912 A, (64) ("pferde").
1913 A, 241 ("equiden").
1913 B, 235 ("equiden")
1919 A, 273 ("pferde").
1923 A, (31).
Arldt, T. 1907 D, 653.
1909 C, 457 ("pferde").
Aureggio, —— 1914 A, 337 ("chevaux").
Baird, S. F. 1876 A, ccviii ("horses").
Bayer, F. 1897 A, 147.
Beddard, F. E. 1902 A, 237.
Behlen, H. 1906 A, 196.
Berthoud, E. L. 1879 A, 153 ("horses").
Beyer, H. 1908 A, 81 ("einhufer").
Boas, J. E. V. 1914 B, 595 ("pferde").
Bonaparte, C. L. 1832 A, 292.
Boule, M. 1905 A, 1664 ("équidés").
1910 A, 1 ("équidés").
Boule and Thevenin 1920 A, 79, 120 ("équidés").
Bradley, O. C. 1903 A, 112.
Buwalda, J. P. 1914 C, 350 ("horses").
Carter, J. T. 1922 A, 606 ("horses").
Carus, V. 1875 A, 159.
Case, E. C. 1899 B, 163.
Chubb, S. H. 1912 A, 113.
Colyer, J. F. 1905 A, 42 ("horses").
Cope, E. D. 1885 EE, 607 ("horses").
Cunningham, J. T. 1904 A, 777 ("horses").
Cuvier, F. 1825 A, 224 ("chevaux").
Cuvier, G. 1803 A, 166 ("chevaux").
1805 A ("chevaux").
1825 A, II, 99-113, pls. i-iii ("chevaux").
Depéret, C. 1905 A, 1518 ("équidés").
1906 B, 1121, 1122 ("équidés").
1908 A, 304.
1911 A, 577 ("équidés").
1912 A, 708 ("équidés").
Diener, C. 1912 A, 216 ("pferde").
Dietrich, K. 1841 A, 85 ("einhufer").
Dopp, K. E. 1904 A, 21 ("horses").
Doran, A. H. G. 1878 A, 420.
Duerst, J. U. 1908 A, 384.
Eaton, J. E. 1928 A, 133 ("horses").
Eichwald, E. 1835 A, 680 ("Equi").
Ewart, J. C. 1909 A, 219.
Fairchild, H. L. 1894 A, 208 ("horses").
Filhol, H. 1889 A, 222 ("équidés").
Flower, W. H. 1892 A, 42, 66.
Frassetto, F. 1903 A, 183.
Freund, L. 1911 A, 387.
Fürbringer, M. 1902 A, 202 ("equiden").
Gadow, H. 1913 A, 135 ("horses").
Gaudry, A. 1891 C, 133 ("pferde").
Geoffroy St. Hilaire, I. 1835 A, 97.
Gervais, P. 1853 B, 35 ("chevaux").
1859 A, 76 (équidés").
Gidley, J. W. 1907 A, 865.
1927 D, 265 ("horses").
Giebel, C. G. 1855 A, 63 (Solidungula).
Gill, T. 1904 B, 737 ("horses").
Granger, W. 1908 A, 221.
Gray, J. E. 1821 A, 307.
1825 B, 342.
1869 A, 262.
Gregory, W. K. 1917 D, 623, 634.
1920 A, 195.
1920 B, 265.
1927 A, 601 ("horses").
1927 F, 390 ("horses").
1927 J, 440, 445, figs. 1, 2 ("horses").
Hay, O. P. 1912 D, 580.
1914 A, 145.
1923 A, 484.
1924 D, 377.
1927 E, 77 ("horses").
Hayden, F. V. 1871 A, 105 ("horses").
Hescheler, K. 1906 A, 31 ("equiden").
Hinze, R. 1910 A, 372 ("einhufer").
Hoernes, R. 1886 A, 671.
Hogben, L. T. 1919 A, 75.
Hrdlička, A. 1903 A, 379.
Hubrecht, A. A. W. 1897 A, 8 ("horses").
Hull, E. 1914 A, 612 ("horses").
Huxley, T. H. 1868 C, 318 ("horses").
1870 F, 532.
1880 E, 457.
1881 A, 454 ("horses").
Ihering, H. 1909 A, 285 ("pferde").
Joleaud, L. 1919 B, 177 ("équidés").
1919 C, 311 ("équidés").
Joly, G. 1898 A, 1579 ("équidés").
Kampfen, P. N. 1905 A, 577, 580.
Keuchenius, P. E. 1913 A, 446.
Knottnerus-Meyer, T. 1907 A, 4, 96, 101.
Koken, E. 1901 B, 222 ("equiden").
Kraglievich, L. 1926 C, 63.
Lankester, E. R. 1905 A, 132 ("horses").
Larger, R. 1913 A, 701 ("équidés").
Le Damany, P. 1903 B, 275 ("équidés").
Ledouble, A. F. 1906 A, 550 ("équidés").
Leunis and Ludwig 1883 A, 269.
Lobley, J. L. 1908 A, 200, 204, 212.
Lull, R. S. 1904 C, 6.
1910 D, 154 ("horses").
1917 B, 709.
1918 C, 136 ("horses").
Lydekker, R. 1903 B, 199.
1904 A, 16 ("horses").
1907 A, 1.
1907 B, 8.
1912 A.
1916 A, 3.
Mannu, A. 1923 A, 161 ("equiden").
Marsh, O. C. 1874 E, 288 ("horses").
Matson and Sanford 1913 A, 146 ("horses").
Matthew, W. D. 1903 A, 3, figs.
1909 C, 125.
1909 D, 302.
1910 G, 155.

Matthew, W. D. 1910 H, 477 ("horses").
1913 B, 286, 291.
1914 B, 387.
1914 G, 233.
1915 A, 196, 197, 235, fig. 17.
1915 K, 451, fig. 17 ("horses").
1916 C, 522.
1916 J, 1, 12 ("horses").
1917 A, 574.
1920 C, 473 ("horses").
1921 D, 214.
1924 E, 745.
1924 G, 629 ("horses").
1926 C.
1928 B, 968 ("horses").
Meckel, J. F. 1825 A ("einhufer").
Merriam, J. C. 1915 E, 212.
1915 F, 255 ("horses").
Montgomery, T. H. 1901 A, 21734 ("horses").
Moodie, R. L. 1918 A, 171.
O'Harra, C. C. 1910 A, 93, 147.
1920 A, 100.
Ohm, —— 1908 A, 356 ("pferde").
Osborn, H. F. 1903 D, 673 ("horses").
1905 D, 315 ("horses").
1905 H, 202, fig. 4.
1905 I, 104.
1905 K, 608 ("horses").
1906 C, 776, 831.
1907 E, 747.
1907 G, 175.
1909 D, 125.
1910 B, 614.
1910 C, 80 ("horses").
1910 D, 736.
1911 C, pl. iii; text-fig. 9 ("horses").
1912 B, 266 ("horses").
1915 D, 284 ("horses").
1924 K, 275 ("horses").
1925 F, 962 ("equines").
Owen, R. 1868 A, 879.
Palacký, J. 1903 B, 310 ("equiden").
Pavlow, M. W. 1925 A, 313, seq.
Perna, G. 1916 A, 122.
Perrier, E. 1920 A, 355 ("équidés").
Pocock, R. I. 1902 A, 304.
1905 A, 517.
Pohle, H. 1921 A, 115.
Pompeckj, J. F. 1925 A, 13 ("pferde").
Rehs, J. 1914 A, 46.
Retterer, E. 1884 A, 496, 509 ("solipèdes").
Reynolds, S. H. 1897 A, 430, 471, 487, 496.
Rutten, L. M. R. 1909 A, 51.
Sauvage, H. E. 1882 A, 103, 105.
Scharff, R. F. 1911 A, 146 ("horses").
Schlesinger, G. 1909 A (141).
1914 A, 210, figs. ("pferde").
Schlosser, M. 1911 A, 165 ("equiden").
Schmidt, O. 1886 A, 201.
Schuchert, C. 1915 A, 937.
Schwarz, E. 1922 A, 150 ("horses").
1922 B, 132 ("pferde").
1924 A, 421 ("horses").
Scott, W. B. 1896 D, 47, 53, 57 ("horses").
1913 A, 290, 291.
1916 A, 115, 117 ("horses").
1917 A, 177 ("horses").
1928 A, 333 ("horses").
Seeley, H. G. 1872 A, 277 ("horses").
Sefve, I. 1910 A, 4 ("pferde").
1912 A.
1913 A, 366 ("pferde").
Serres, M. 1860 A, 301 ("cheveaux").
Steinmann, G. 1907 A, 489.
1912 B, 718 ("pferde").
Taschenberg, O. 1899 A, 4546.
Terra, P. 1911 A, 309.
Thacker, A. G. 1914 A, 283.
Tornier, G. 1888 A, 301 ("equiden").
1891 A, 199 ("equiden").
1908 A, 196 ("pferde").
1909 C, 540 ("equiden").
Tornquist, A. 1897 A, 683 ("pferde").
Trouessart, E. L. 1905 A, 637.
Underhill, B. M. 1907 A, 115, 118.
Veith, A. 1912 A ("hippiden").
Vic-d'Azyr, F. 1792 A, cx ("solipèdes").
Wallace, A. R. 1876 A, I, 112, 115, 125; II, 211.
Walmsley, T. 1918 A, 326.
Weber, M. 1904 A, 612, 614, 619.
Weber and Abel 1928 A, 426, 633, 650, 653, 676.
Weinberg, R. 1903 A, 491 (Anchilophus).
Windle, B. C. A. 1905 A, 1052 ("equiden").
Winge, H. 1906 A, 71, 143, 151 (Equini).
Woodward, A. S. 1917 D, lxxi ("horses").
1923 A, 29 ("horses").
Wright, G. F. 1908 A, 34 ("horses").
Wright, R. R. 1883 A, 246.
Zietzschmann, O. 1917 A, 440 ("equiden").
Zittel and Schlosser 1911 A, 454.
1923 A, 540, 602, 667.

HYRACOTHERIINÆ Cope.

Cope, E. D. 1881 G, 381.
Hay, O. P. 1902 A, 608.
Abel, O. 1913 B, 753b.
Ameghino, F. 1893 B, 443 (Hyracotheriidæ).
1902 B, 9.
Antonius, O. 1919 A, 275, 292 (Protohippinæ).
Arldt, T. 1909 C, 458 ("hyrachotherien").
1912 A, 700 (Hyracotherinæ).
Depéret, C. 1901 A, 199 ("hyracothéridés").
1905 C, 703 ("hyracothéridés").
1911 A, 577 ("hyracothéridés").
Gidley, J. W. 1907 A, 867, 871, 934.
Lydekker, R. 1912 A, 263 (Hyracotheriidæ).
Major, C. J. F. 1880 A, 25 ("hyracotherien").
Matthew, W. D. 1928 B, 967 ("hyracotheriines").
Osborn, H. F. 1910 B, 619.
1922 D, 721 ("4-toed horses").
Palmer, T. S. 1904 A, 748, 936.
Sauvage, H. E. 1882 A, 105 (Hyracontherinæ).
Stehlin, H. G. 1905 A, 548 ("orohippiden").
Trouessart, E. L. 1905 A, 610 (Hyracotheriidæ).
Wallace, A. R. 1876 A, I, 135 (Anchitheridæ); II, 212 (Anchitheridæ).
Weber, M. 1904 A, 619.
Weber and Abel 1928 A, 650, 675 (Palæohippidæ)
Zittel and Schlosser 1911 A. 457
1923 A. 542

Hyracotherium Owen. Type *H. leporinum* Owen.

Owen, R. 1840 G, 162.
Hay, O. P. 1902 A, 610 (Pliolophus).
Abel, O. 1913 B, 753b, 754a, figs. 103, 104.
1919 A, 860, fig. 655.
1928 B, 22, 62, 63, 88.
Ameghino, F. 1904 A, 532.
1906 A, 295, 301.
Anonymous 1898 A, 373.
Beddard, F. E. 1902 A, 247.
Bensley, B. A. 1901 C, 252.
Bronn, H. G. 1848 A, 603.
Case, E. C. 1899 B, 163.
Chardin, P. T. 1927 A, 27, pl. v, fig. 22.
Depéret, C. 1901 A, 200 (Pliolophus); 207 (Hyracotherium).
1904 B, 22.
1905 C, 703.
1907 B.
1912 A, 707.
Floderus, M. 1910 A, 98, fig. 1.
Flower, W. H. 1892 A, 28.
Geol. Magazine 1914 A, 480 (Hyracotherium, Pliolophus).
Giebel, C. G. 1855 A, 70.
Gill, T. 1904 B, 737.
Granger, W. 1909 A, 239 (Pliolophus).
Keuchenius, P. E. 1913 A, 448.
Lankester, E. R. 1905 A, 136, figs. 92, 94.
Lemoine, V. 1889 A, 238.
Lull, R. S. 1917 B, 610.
Lydekker, R. 1903 D, 123 ("hyracothere").
1904 A, 17, figs. 1, 3.
1908 A, 507.
1912 A, 241.
1915 C, 620.
Major, C. J. F. 1872 A, 153.
Matthew, W. D. 1913 F, 15.
1928 B, 968.
Osborn, H. F. 1902 D, 260, fig. 1.
1907 G, 83, figs. 135, 159, 161, 164, 165, 210.
Owen, R. 1868 A, 375, 792.
Palacký, J. 1903 B, 307.
Palmer, T. S. 1904 A, 344, 937.
Pavlow, M. W. 1925 A, 314, 321.
Schlosser, M. 1898 E, 125.
1921 A, 123.
Steinmann, G. 1907 A, 490.
Thorpe, M. R. 1927 A, 167.
Trouessart, E. L. 1905 A, 611.
Veith, A. 1912 A, 1, 11.
Weber, M. 1904 A, 619, 693.
Wortman, J. L. 1903 A, xv, 431.
Zittel, K. A. 1895 A, 305.
Zittel and Schlosser 1911 A, 458.
1923 A, 543.

Eohippus Marsh. Type *E. validus* Marsh.

Hay, O. P. 1902 A, 608 (Eohippus); 610 (Protorohippus).
Abel, O. 1914 A, 246 (Protorohippus).
1926 A, 225.
1926 B, 396, 399, 443.
1926 H, (160).
1928 B, 17, 19, 62, figs. 3, 4, 6, 10, 14, 84, 93.
Ameghino, F. 1906 A, 295.
Anonymous 1904 B, 40 (Protorohippus).
1908 B, 121.
Arldt, T. 1907 D, 253, 257.
1909 C, 458 ("Hyracotherium").
Beasley, W. L. 1903 A, 451, fig. 4.
Beddard, F. E. 1902 A, 248.
Berry, E. W. 1922 A, 110 (Eohippus, Protorohippus).
Berthoud, E. L. 1879 A, 154.
Carter, J. T. 1922 A, 606.
Chardin, T. 1922 A, 83 (Eohippus, Systemodon).
Cope, E. D. 1880 U, 149.
Depéret, C. 1901 A, 200, 203 (Hyracotherium); 222 (Eohippus, Protorohippus).
1912 A, 707.
Fairchild, H. L. 1894 A, 209.
Flower, W. H. 1908 I, 121.
Fürbringer, M. 1902 A, 202.
Gidley, J. W. 1918 B, 59.
1927 D, 266, fig.
Gill, T. 1904 B, 737.
Granger, W. 1908 A, 231, 234 (Includes Protorohippus).
1908 B, 256.
1911 A, 85.
1914 A, 202.
Gregory, W. K. 1912 F, 285.
1917 D, 623.
Gregory, W. K. 1920 A, 195.
1927 F, 393.
1927 I, 557.
1927 J, 445, figs. 1, 2.
Grinnell, G. B. 1923 A, 335.
Haug, E. 1911 A, 1528.
Heilmann, G. 1916 A, 122, fig. 209.
1926 A, 160.
Heilprin, A. 1887 A, 371, 372.
Hutchinson, H. N. 1910 A, 242, fig. 69 (Protorohippus).
Huxley, T. 1880 E, 458, 468.
1913 in Lull, R. S. 1913 A, 4, figure.
Keuchenius, P. E. 1913 A, 448.
Lankester, E. R. 1905 A, 140, fig. 95 (Hyracotherium).
Lee, Stone, Gale 1915 A, 40.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1905 C, 296.
1926 A, 19, 60, 82, 97, pl. v, figs. 7, 11, 12, 16.
Lucas, F. A. 1901 J, 159.
1902 B, 227 (Protorohippus).
Lull, R. S. 1904 C, 6.
1907 A, 164, 171 (Eohippus); 172, fig. 6 (Protorohippus).
1910 D, 154.
1913 A, 12.
1917 B, 301, 610, figs. 212-214.
Lydekker, R. 1907 A, 2, fig. 1 (Protorohippus).
1912 A, 273 (Eohippus, Protorohippus).
Matthew, W. D. 1903 A, 12, pl. iii; text-fig. 1 (Eohippus); 15, pl. iv; text-fig. (Protorohippus).
1908 I, 121.
1909 C, 102 (Eohippus, Protorohippus).

Matthew, W. D. 1913 F, 15, figs. 2, 3, 4, 16, 19, 21.
1914 G, 234.
1915 A, 236, 313 (Eohippus); 239 (Systemodon).
1915 K, 413, 421, 455.
1916 J, 5, 11, 12, fig. 2.
1917 A, 574.
1920 C, 475.
1921 D, 219.
1924 B, 630.
1924 E, 749.
1924 G, 630.
1926 C, 141, 167, 170, figs. 1-7, 26, 27.
1928 B, 964, 967, 977, figs. 10, 15 (Syn. of Hyracotherium).
Matthew and Granger 1917 B, 417 ("Eohippus").
1925 E, 5 (Systemodon).
1926 A, 3.
Montgomery, T. H. 1901 A, 21733.
Noack, T. 1880 A, 78.
O'Harra, C. C. 1910 A, 93.
1920 A, 100.
Osborn, H. F. 1903 D, 674 (Eohippus, Protorohippus).
1904 R, 6.
1905 I, pls. ix, x; text-figs. 166, 197 (Protorohippus).
1907 G, 162, figs. 135, 166 (Eohippus); 178. figs. 166, 197 (Protorohippus).
1909 D, 23, 125.
1910 B, 614, figs. 34, 35.
1912 B, 261, fig. 4.
1912 G, 235, fig. 2.
1912 L, 187, fig. 4.
1915 B, 212, fig. 4.
1919 B, 558.
1926 A, 188.
Palmer, T. S. 1904 A, 263, 937 (Eohippus); 585, 938 (Protorohippus); 658, 941 (Systemodon).
Petronievics, B. 1921 A, 102.
Sauvage, H. E. 1882 A, 106 ("eohippe").
Scharff, R. F. 1911 A, 147.
Schlosser, M. 1921 A, 124, text-fig. 1.
Schuchert, C. 1910 A, 599.
Schuchert and Levene 1927 A, 344, fig.
Scott, W. B. 1913 A, 280, 302, 303, 304, 305, figs. 153, 154.
1917 A, 102, 105.
Seeley, H. G. 1886 A, 475 (Systemodon); 476 (Pliolophus).
Shufeldt, R. W. 1889 D, 11.
Stehlin, H. G. 1905 A, 553, 556 (Eohippus); 549, 556 (Protorohippus).
Steinmann, G. 1907 A, 490.
Thorpe, M. R. 1927 A, 167.
Trouessart, E. L. 1905 A, (Subg. of Hyracotherium).
Troxell, E. L. 1916 A, 344.
Underhill, B. M. 1907 A, 117.
1910 A, 79.
Veith, A. 1912 A, 12 (Eohippus, Protorohippus).
Weber, M. 1904 A, 619 (Eohippus, Protorohippus); 624 (Systemodon).
Weber and Abel 1928 A, xxiii, 660, 677, 681, fig. 469.
Wieland, G. R. 1903 B, 412 (Eohippus, Protorohippus).
Wood, H. E. 1927 B, 13, tab. 1*a*, ii, vii.
Wright, R. R. 1883 A, 250.
Zittel and Schlosser 1911 A, 458.
1923 A, 543, 544, 550.

Eohippus angustidens (Cope).

Hay, O. P. 1902 A, 609 (E. index, in part).
Gidley, J. W. 1926 E, 41 (This species?).
Granger, W. 1908 A, 223 (Orohippus); 235, 244, 259 (Eohippus).
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 95.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico.

Eohippus borealis Granger.

Granger, W. 1908 A, 242, 261, fig. 4; pl. xv, fig. 3.
Abel, O. 1926 B, 412, figs. 262, 423.
1928 B, 19, 22, fig. 7.
Loomis, F. B. 1907 B, 357.
1926 A, 8, 72, pl. i.
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1910 B, 116.
Lower Eocene (Wasatch); Wyoming.

Eohippus craspedotus (Cope).

Hay, O. P. 1902 A, 609.
Abel, O. 1926 B, 396, 408, fig. 260 (E. craspedotum).
1928 B, 19, fig. 1.
Granger, W. 1908 A, 225 (Hyracotherium); 244 (Eohippus).
Loomis, F. B. 1919 A, 217 (E. kraspidotus).
1926 A, 80.
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1904 F, 13 (Hyracotherium).
Seeley, H. G. 1886 A, 476 (Hyracotherium).
Sinclair and Granger 1911 A, 91.
Stehlin, H. G. 1905 A, 548 (Hyracotherium).
Lower Eocene (Wind River); Wyoming.

Eohippus cristatus (Wortman).

Hay, O. P. 1902 A, 609.
Chardin, T. 1922 A, 73 (Hyracotherium).
Depéret, C. 1901 A, 203 (Hyracotherium).
Granger, W. 1908 A, 226 (Eohippus); 239 (Hyracotherium).
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1909 D, 38.
Lower Eocene (Wasatch); Wyoming.

Eohippus cristonensis (Cope).

Hay, O. P. 1902 A, 610 (Pliolophus).
Granger, W. 1908 A, 224 (Orotherium); 237, 263, fig. 5 (Eohippus).
Gregory, W. K. 1917 D, 633, fig. 1.
Loomis, F. B. 1907 B, 357 (E. cristonense).
Matthew, W. D. 1909 C, 95.
Merrill, G. P. 1907 A, 43 (Hyracotherium crist.); 51 (Orotherium cristonense, O. lœvii).
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Eohippus cuspidatus (Cope).

Cope, E. D. 1875 C, 22 (Orohippus).

Hay, O. P. 1902 A, 609 (E. index, in part).
Granger, W. 1908 A, 223 (Orohippus), 235 (Syn.? of E. angustidens).
Matthew, W. D. 1909 C, 95.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico.

Eohippus etsagicus (Cope).

Cope, E. D. 1884 O, pl. lvi, fig. 5 (Systemodon; no description).
Granger, W. 1908 A, 225 (Systemodon); 238, 240, 243, 259 (Eohippus).
Matthew, W. D. 1909 C, 95 (Helohyus).
Lower Eocene (Wasatch); Wyoming.

Eohippus index (Cope).

Hay, O. P. 1902 A, 609.
Abel, O. 1928 B, 19.
Cope, E. D. 1874 B, 441, 459.
Depéret, C. 1901 A, 203 (Hyracotherium).
Gidley, J. W. 1926 E, 41.
1927 D, 269, fig.
Granger, W. 1908 A, 222 (Orotherium); 234, pl. xv, fig. 1 (Eohippus).
Loomis, F. B. 1926 A, 72.
Matthew, W. D. 1909 C, 95.
Merrill, G. P. 1907 A, 36 (Eohippus index); 51 (Orohippus augustidens, O. cuspidatus).
Osborn, H. F. 1909 D, 39.
1912 G, 235.
Seeley, H. G. 1886 A, 476 (Hyracotherium).
Trouessart, E. L. 1905 A, 611.
Lower Eocene (Wasatch); Wyoming.

Eohippus montanus (Wortman).

Hay, O. P. 1902 A, 610 (Pliolophus).
Granger, W. 1908 A, 226 (Hyracotherium); 239 (Eohippus).
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 95.
Lower Eocene (Wasatch); Wyoming.

Eohippus pernix Marsh.

Hay, O. P. 1902 A, 609.
Abel, O. 1912 F, 234, fig. 162.
1913 B, 754, fig. 102.
1914 A, 136, fig. 94.
1914 D, 26, fig. 1.
1920 A, 449, fig. 686.
1922 C, 274, fig. 231.
Depéret, C. 1901 A, 203.
Granger, W. 1908 A, 224 (=E. index?).
Lull, R. S. 1907 A, 171, fig. 7.
Lydekker, R. 1912 A, 273.
Matthew, W. D. 1909 C, 95.
1917 A, 574.
Schlesinger, G. 1914 A, 211, figs. 2, 3.
Lower Eocene (Wasatch); Wyoming.

Eohippus resartus Granger.

Granger, W. 1908 A, 240, figs. 1, 2.
Hay, O. P. 1902 A, 610 (E. tapirinus, in part).
Abel, O. 1928 B, 19.
Loomis, F. B. 1907 B, 357.
1926 A, 72, pl. v.
Matthew, W. D. 1909 C, 95.
1926 C, 152, fig. 9.
Lower Eocene (Wasatch); Wyoming.

Eohippus? tapirinus (Cope).

Hay, O. P. 1902 A, 610.
Ameghino, F. 1906 A, 107, fig. 120 (Hyracotherium).
Depéret, C. 1901 A, 203 (Hyracotherium).
Granger, W. 1908 A, 223 (Orohippus); 240 (Eohippus).
Matthew, W. D. 1909 C, 94 (Systemodon).
Merrill, G. P. 1907 A, 43 (Hyracotherium); 51 (Orohippus).
Peterson, O. A. 1919 A, 103 ("tapirinus").
Reeside, J. B. 1924 A, 46 (Systemodon).
Trouessart, E. L. 1905 A, 611.
Troxell, E. L. 1922 B, 288 (Systemodon).
Veith, A. 1912 A, 12 (Hyracotherium).
Zittel and Schlosser 1911 A, 458, fig. 635.
1923 A, 543, fig. 674.
Lower Eocene (Wasatch); New Mexico.
Granger, as cited, regards the type of this species as generically indeterminable.

Eohippus validus Marsh.

Hay, O. P. 1902 A, 610.
Granger, W. 1908 A, 224, 236, pl. xv, fig. 2.
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1910 B, 117, 128.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico.

Eohippus vasacciensis (Cope).

Hay, O. P. 1902 A, 610.
Cope, E. D. 1872 PP, 2 (Notharctus; Lophiotherium vasachiensis).
Depéret, C. 1901 A, 203 (Hyracotherium).
Granger, W. 1908 A, 222, 244 (Lophiotherium).
Matthew, W. D. 1909 C, 95.
Merrill, G. P. 1907 A, 43 (Hyracotherium); 51 (Orohippus).
Osborn, H. F. 1909 D, 39.
1912 G, 235, fig. 2.
Lower Eocene (Wasatch); Wyoming.

Eohippus venticolus (Cope).

Hay, O. P. 1902 A, 610 (Protorohippus).
Abel, O. 1914 A, 246, fig. 215.
1926 B, 410, fig. 261-263.
1928 B, 20, 22, figs. 2, 5, 7.
Cope, E. D. 1891 N, 62, 63, 85, figs. 32*d*, 57 (Hyracotherium).
Flower, W. H. 1892 A, 29 (Hyracotherium).
Granger, W. 1908 A, 225 (Hyracotherium); 245, 260, 263, figs. 3, 5 (Eohippus).
1910 A, 236.
Gregory, W. K. 1917 D, 633, fig. 1.
Leuthardt, F. 1891 A, 113, pl. v, fig. 4 (Hyracotherium).
Loomis, F. B. 1926 A, 80, pl. vi.
Lydekker, R. 1912 A, 273 (Protorohippus).
Matthew, W. D. 1909 C, 95.
1913 F, 18, fig. 8.
1915 D, 3 (Hyracotherium).
1917 A, 574.
1926 C, 152, fig. 10.
Osborn, H. F. 1901 A, pls. i, ii (Protorohippus).
1904 F, 13, 25, 38, fig. 8 (Protorohippus).
1904 R, 4, figs. 1, 1a, 8 ("Protorohippus).
1910 B, 130, 134, 135.

Sinclair and Granger 1911 A, 91 (This species?).
Stehlin, H. G. 1905 A, 578.
Stromer, E. 1912 A, 207, fig. 194.
Terra, P. 1911 A, 312, fig. 133 (Hyracotherium).
Trouessart, E. L. 1905 A, 612 (Protorohippus).
Weber, M. 1904 A, 619, fig. 448 (Hyracotherium).
Williams, H. S. 1897 A, 685, fig. ("Protorohippus").
Woodward, A. S. 1904 B, 160 (Protorohippus).
1923 C, 32 (Protorohippus).
Zittel and Schlosser 1911 A, 457, fig. 634.
1923 A, 543, fig. 673.
Lower Eocene (Wind River); Wyoming, New Mexico.

Eohippus sp. indet.

Gidley, J. W. 1926 E, 41 (This genus?). Lower Eocene (Wasatch); Wyoming.
Granger, W. 1908 A, 246.
1911 A, 85, figs. Lower Eocene (Wasatch); Wyoming.
Granger and Simpson 1928 A, 1. Wasatch (Sand Coulee); Wyoming.
Matthew, W. D. 1912 C, 186, fig. Lower Eocene (Wasatch); Wyoming.
Sinclair and Granger 1911 A, 108.
Wegemann, C. H. 1918 A, 59. Lower Eocene (Wasatch); Wyoming.
Wood, H. E. 1927 B, tab. vii.

OROHIPPUS Marsh. Type *O. pumilis* Marsh = *O. typicus* Granger.

Hay, O. P. 1902 A, 611 (Orohippus, Helohippus).
Abel, O. 1909 E, (246).
1914 A, 246.
1926 B, 396, 399, 409, 411, figs. 262, 263.
1926 H, (160).
1928 B, 23, 93.
Anonymous 1906 B, 228.
1908 B, 121.
Arldt, T. 1907 D, 257.
1909 C, 458.
Baird, S. F. 1876 A, 322.
Beddard, F. E. 1902 A, 248.
Berthoud, E. L. 1879 A, 154.
Boas, J. E. V. 1914 B, 595.
Cope, E. D. 1880 U, 149 (Orotherium).
Delafontaine, M. 1875 A, 174.
Depéret, C. 1901 A, 221, 222.
1912 A, 707.
Fürbringer, M. 1902 A, 203.
Granger, W. 1908 A, 230 (Helotherium, Orotherium, Oligotomus, Helohippus, syns.); 247 (Orohippus); 251, 255 (Aminippus; subgenus, to replace *Orotherium*).
1908 B, 256.
Gregory, W. K. 1906 A, 13.
1908 A, 121.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 371, 372.
Huxley, T. H. 1876 F, 186.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1926 A, 62, 82, 97, fig. 16.
Lull, R. S. 1907 A, 173, figs. 4, 6 (Orohippus); 173 (Helohippus).
1913 A, 12.
1917 B, 611, fig. 215.
Lydekker, R. 1907 A, 6, fig. 1-*b*.
1912 A, 272 (Orohippus, Heliohippus).
Marsh, O. C. 1874 E, 288, 293, fig. 75.
Matthew, W. D. 1907 A, 175.
1908 I, 121.
1909 C, 102 (Helotherium, Oligotomus, Orohippus, Orotherium).
1912 A, 15.
1913 F, 16, 25, figs. 5, 16, 19.
1914 G, 234.
1915 A, 236, 313.
1915 K, 413, 455.
1916 J, 6, 11, 12.
1917 A, 574.
1920 C, 475.
Matthew, W. D. 1924 B, 630.
1924 E, 748.
1924 G, 630.
1926 C, 150, 167, figs. 7, 26, 27.
1928 B, 967, 977, fig. 15 (Orohippus, Aminippus).
Montgomery, T. H. 1901 A, 21734.
Noack, T. 1880 A, 78.
Osborn, H. F. 1908 D, 750, fig. 3.
1909 D, 23, 49, 52.
1910 B, 625.
1912 G, 237.
1917 B, 258, fig.
1925 C, 750.
Palmer, T. S. 1904 A, 481, 937 (Orohippus); 315, 937 (Helohippus, Oligotomus, Orotherium); 315, 942 (Helotherium).
Petronievics, B. 1921 A, 102.
Regnault, F. 1903 A, 110.
Rogenhofer, A. 1908 A, (42).
Sauvage, H. E. 1882 A, 106, fig. ("orohippe").
Schlesinger, G. 1914 A, 214, fig. 7.
Schmidt, O. 1886 A, 213, fig. 8.
Schuchert, C. 1910 A, 599.
Schuchert and Levene 1927 A, 344, 346, fig.
Scott, W. B. 1913 A, 272, 302.
Seeley, H. G. 1878 A, 224.
Shufeldt, R. W. 1889 D, 11.
Stehlin, H. G. 1905 A, 549, 556.
Thorpe, M. R. 1927 A, 167.
Trouessart, E. L. 1905 A, 614.
Underhill, B. M. 117, 119, fig. 1.
Veith, A. 1912 A, 12.
Villada, M. M. 1903 A, 442.
Weber, M. 1904 A, 619.
Weber and Abel 1928 A, xxiii, 677, fig. 469.
Zittel and Schlosser 1911 A, 458.
1923 A, 544, 550.

Orohippus agilis Marsh.

Hay, O. P. 1902 A, 611.
Abel, O. 1912 F, 234, fig. 162.
1913 B, 754, fig. 102.
1914 A, 136, fig. 94.
1914 D, 26, fig. 1.
1920 A, 449, fig. 686.
1922 C, 274, 276, fig. 231.
Delafontaine, M. 1875 A, 174.
Granger, W. 1908 A, 228, pl. xvi, fig. 5 (Orohippus); 257 [O. (Aminippus)].
Lull, R. S. 1907 A, 173, fig. 8.

Marsh, O. C. 1874 E, 289, 291, fig. 73.
Matthew, W. D. 1909 C, 98.
Middle Eocene (Bridger); Wyoming.

Orohippus atavus Granger.

Granger, W. 1908 A, 253, 261, pl. xv, fig. 4; text-fig. 4.
Abel, O. 1926 B, 412, fig. 262.
1928 B, 24, fig. 7.
Loomis, F. B. 1926 A, 83.
Middle Eocene (Bridger); Wyoming.

Orohippus ballardi (Marsh).

Hay, O. P. 1902 A, 611.
Cope, E. D. 1872 NN, 2 (Lophiotherium ballardii).
Granger. W. 1908 A, 227 (Lophiotherium); 248, pl. xvi, fig. 4 (Orohippus).
Lull, R. S. 1913 A, 2.
Matthew, W. D. 1909 C, 98.
Middle Eocene (Bridger); Wyoming.

Orohippus cinctus (Cope).

Hay, O. P. 1902 A, 611.
Granger, W. 1908 A, 228 (Oligotomus cinctus=? Orohippus ballardi).
Matthew, W. D. 1909 C, 98.
Trouessart, E. L. 1905 A, 615.
Middle Eocene (Bridger); Wyoming.

Orohippus major Marsh.

Hay, O. P. 1902 A, 611.
Granger, W. 1908 A, 228, 250, pl. xvi, fig. 2.
Marsh, O. C. 1874 E, 289.
Matthew, W. D. 1909 C, 98.
Trouessart, E. L. 1905 A, 614.
Middle Eocene (Bridger); Wyoming.

Orohippus osbornianus (Cope).

Hay, O. P. 1902 A, 611.
Abel, O. 1928 B, 26, 84, figs. 8, 9.
Anonymous 1908 A, 723.
Granger, W. 1908 A, 229 (Hyracotherium); 252, pl. xvii (Orohippus).
Loomis, F. B. 1926 A, 83, pls. vii, x.
Matthew, W. D. 1908 G, 89.
1909 C, 98.
Middle Eocene (Bridger); Wyoming.

Orohippus procyoninus Cope.

Cope, E. D. 1872 OO, 1 (Helotherium).
Hay, O. P. 1902 A, 612.
Granger, W. 1908 A, 227 (Heliotherium procyoninum=? Orohippus pumilus).
Marsh, O. C. 1874 B, 249 (Syn? of O. pumilis).
Matthew, W. D. 1909 C, 98.
Trouessart, E. L. 1905 A, 614 (Syn. of O. pumilis).
Middle Eocene (Bridger); Wyoming.

Orohippus progressus Granger.

Granger, W. 1908 A, 250, 261, pl. xviii, fig. 1; text-fig. 4.
Abel, O. 1926 B, 412, fig. 262.
1928 B, 23, fig. 7.
Peterson, O. A. 1919 A, 101.
Middle Eocene (Bridger); Wyoming.

Orohippus pumilus (Marsh).

Hay, O. P. 1902 A, 611 (Helohippus).
Granger, W. 1908 A, 226, 232 (Lophiodon); 227, 247 (Orohippus).
Marsh, O. C. 1874 E, 289.
Matthew, W. D. 1909 C, 98.
Middle Eocene (Bridger); Wyoming.

Orohippus sylvaticus (Leidy).

Hay, O. P. 1902 A, 612.
Granger, W. 1908 A, 226 (Lophiotherium); 255 [O. (Aminippus)]; pl. xviii, fig. 2 (Orohippus).
Matthew, W. D. 1909 C, 98.
Merrill, G. P. 1907 A, 44 (Lophiotherium).
Middle Eocene (Bridger); Wyoming.

Orohippus typicus Granger.

Granger, W. 1908 A, 249, 260, pl. xvi, fig. 3 (To replace *Orohippus pumilus* Marsh, preoccupied).
Hay, O. P. 1902 A, 612 (Orohippus pumilis).
Granger, W. 1908 A, 227 (O. pumilus).
Lull, R. S. 1913 A, 4 (O. pumilus).
Middle Eocene (Bridger); Wyoming.

Orohippus uintanus (Marsh).

Hay, O. P. 1902 A, 612.
Granger, W. 1908 A, 228 (Orotherium); 256 [O. (Aminippus)]; 263, fig. 5; pl. xvi, fig. 6 (Orohippus).
Gregory, W. K. 1917 D, 633.
Lull, R. S. 1913 A, 4.
Matthew, W. D. 1909 C, 98.
Merrill, G. P. 1907 A, 51 (Orotherium vintanum).
Middle Eocene (Bridger); Wyoming.

Orohippus sp. indet.

Hatcher, J. B. 1901 A, 134, pl. i, fig. 7. Oligocene (White River); Nebraska.

EPIHIPPUS Marsh. Type *E. gracilis* Marsh.

Hay, O. P. 1902 A, 612.
Abel, O. 1914 A, 246.
1926 B, 396, 399, 411, 414, fig. 263.
1926 H, (160).
1928 B, 24, 35, 63, 84, fig. 6.
Arldt, T. 1907 D, 257.
Beasley, W. L. 1903 A, 451.
Berry, E. W. 1922 A, 111.
Bronn, H. G. 1848 A, 463 (Ephippus).
Case, E. C. 1899 B, 164.
Depéret, C. 1901 A, 221, 222.
1912 A, 710.
Giebel, C. G. 1855 A, 103.
Granger, W. 1908 A, 231, 257.
1908 B, 256.
Haug, E. 1911 A, 1528.
Loomis, F. B. 1926 A, 62, fig. 16.
Lull, R. S. 1907 A, 173.
1913 A, 12.
1917 B, 611, 613.

Lydekker, R. 1912 A, 271.
Matthew, W. D. 1903 A, 16, pl. iv.
1909 C, 102.
1913 F, 16, 25, figs. 6, 19.
1914 G, 234.
1915 A, 236, 313.
1915 K, 413, 455.
1916 J, 7, 11.
1924 B, 630.
1924 D, 1.
1924 E, 748.
1924 G, 630.
1926 C, 150, 152, fig. 7.
1928 B, 967, 977, fig. 15.
Osborn, H. F. 1903 E, 674.
1910 B, 14, 170, 555.
Palmer, T. S. 1904 A, 267, 937.
Peterson, O. A. 1919 A, 101.
Scharff, R. F. 1911 A, 147.
Schuchert and Levene 1927 A, 346, fig.
Scott, W. B. 1913 A, 266, 301, 302.
Stehlin, H. G. 1905 A, 549, 556.
Thorpe, M. R. 1927 A, 167.
Trouessart, E. L. 1905 A, 614.
Underhill, B. M. 1907 A, 117, 120.
Veith, A. 1912 A, 12.
Weber, M. 1904 A, 620.
Weber and Abel 1928 A, xxiii, 677, 681, fig. 469.
Wieland, G. R. 1903 B, 412.
Winge, H. 1906 A, 149 (Ephippus).
Wright, R. R. 1883 A, 250.
Zittel and Schlosser 1911 A, 458.
1923 A, 544, 550, 666, 669.

Epihippus gracilis Marsh.

Hay, O. P. 1902 A, 612.
Granger, W. 1908 A, 229 (Anchitherium); 258, pl. xviii. fig. 4 (Epihippus).
Loomis, F. B. 1926 A, 84.
Lull, R. S. 1907 A, 173.
1913 A, 3.
Marsh, O. C. 1874 E, 289 (Orohippus).
Matthew, W. D. 1909 C, 99.
Peterson, O. A. 1919 A, 101.
Upper Eocene (Uinta); Utah.

Epihippus parvus Granger.

Granger, W. 1908 A, 258, pl. xviii, fig. 3.
Loomis, F. B. 1926 A, 84.
Matthew, W. D. 1909 C, 99.
Peterson, O. A. 1919 A, 102, pl. xlii, figs. 12-16.
Upper Eocene (Uinta); Utah.

Epihippus uintensis Marsh.

Hay, O. P. 1902 A, 612.
Granger, W. 1908 A, 229 (Orohippus); 258 pl. xviii, fig. 5 (Epihippus. Syn. of E. gracilis?).
Gregory, W. K. 1917 D, 633, fig. 1.
Lull, R. S. 1907 A, 173.
Matthew, W. D. 1909 C, 99.
Peterson, O. A. 1919 A, 101.
Upper Eocene (Uinta); Utah.

ANCHITHERIINÆ Osborn.

Hay, O. P. 1902 A, 608 (Hyracotheriinæ).
Arldt, T. 1912 A, 700, 746.
Gervais, P. 1852 A, 63, explan. pl. xxx (Anchitherium).
1859 A, 83 (Anchitherium).
Gidley, J. W. 1907 A, 867, 871, 934.
Lydekker, R. 1912 A, 263 (Anchitheridæ).
Major, C. J. F. 1877 A, 7 (Anchitheridæ).
Matthew, W. D. 1915 A, 196.
Osborn, H. F. 1910 B, 233, 333, 555.
Romer, A. S. 1926 B, 332.
Schlosser, M. 1898 C, 373.
Zittel and Schlosser 1911 A, 460.
1923 A, 545.

MESOHIPPUS Marsh. Type *Anchitherium bairdi* Leidy.

Marsh, O. C. 1875 B, 248.
Hay, O. P. 1902 A, 612 (Miohippus, in part).
Abel, O. 1913 B, 754*a*, fig. 104.
1914 A, 246.
1919 A, 862, fig. 656.
1920 A, 450, fig. 688.
1926 B, 396, 399, 414, 434, 451.
1926 H, (160).
1928 B, 20, 29, 34, 63, 88, 93, figs. 3, 4, 14.
Ameghino, F. 1889 A, 556, 557 (Anchitherium)
1893 B, 443.
1893 D, 15.
1904 A, 231, 232.
Anonymous 1898 A, 373.
1908 B, 121.
Arldt, T. 1907 D, 247.
Beasley, W. L. 1903 A, 451.
Beddard, F. E. 1902 A, 248.
Berry, E. W. 1922 A, 111.
Berthoud, E. L. 1879 A, 154.
Boas, J. E. V. 1914 B, 596, figs. 43-45.
Case, E. C. 1899 B, 164.
Condon, T. 1902 A, 123 ("Anchitherium").
1910 A, 104.
Cope, E. D. 1880 U, 156.
Depéret, C. 1912 A, 708, 710.
Douglass, E. 1905 A, 211.
1909 C, 231, 283.
Floderus, M. 1910 A, 98, fig. 1.
Gidley, J. W. 1906 D, 386.
1907 A, 867.
1908 B, 237, 241.
Gregory, W. K. 1908 A, 121.
1912 F, 285.
1917 D, 633, fig. 1.
1920 A, 193.
Haug, E. 1911 A, 1528, 1529.
Heilmann, G. 1916 A, 125, fig. 209.
Heilprin, A. 1887 A, 371, 372.
Hescheler, K. 1906 A, 31.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1926 A, 60, 63, 64, 104, figs. 7, 8 11, 12, 21.
1928 A, 142.
Lull, R. S. 1904 C, 6.
1907 A, 173, fig. 6.
1910 D, 154.
1913 A, 12.
1917 B, 301, 610, figs. 216-218.
Lydekker, R. 1904 A, 18.

Lydekker, R. 1907 A, 6, figs. 1a, 2b.
1912 A, 265.
Matsumoto, H. 1921 A, 75.
Matthew, W. D. 1903 A, 16, pl. v.
1907 A, 175.
1908 I, 121.
1909 C, 111.
1913 F, 17, 25, figs. 2, 3, 7, 16, 21.
1914 G, 234.
1915 A, 236, 313.
1915 K, 420, 455.
1916 J, 7, 9, 11, figs. 2, 3.
1917 A, 574.
1920 C, 475.
1924 B, 630.
1924 D, 1.
1924 E, 748.
1924 G, 630.
1926 B, 5, 6.
1926 C, 141, 167, figs. 1-7, 27.
1928 B, 979, fig. 15.
Merriam, J. C. 1911 B, 258.
1913 G, 424.
Merriam and Sinclair 1903 A, 95.
Moodie, R. L. 1922 C, 367, fig. 24.
Noack, T. 1880 A, 78.
O'Harra, C. C. 1910 A, 95, 129.
1920 A, 101, fig. 40.
Osborn, H. F. 1904 R, 7.
1905 J, 282.
1907 G, 17 5, figs. 161, 164.
1910 B, 623, fig. 223.
1917 B, 266, fig.
1918 A, 4, 5, 20, 22, 36.
1925 C, 750.
Palacký, J. 1903 B, 312.
Palmer, T. S. 1904 A, 414, 937.
Pavlow, M. W. 1925 A, 314, 318.
Peterson, O. A. 1919 A, 103.
Petronievics, B. 1921 A, 102.
Sauvage, H. E. 1882 A, 108, fig. ("mesohippe").
Scharff, R. F. 1911 A, 147.
Schlesinger, G. 1914 A, 212, figs. 4, 7.
Schlosser, M. 1897 B, 19.
1899 I, 349.
1899 R, 316.
1901 A, 491.
1903 I, 181.
1924 A, 68.
Schmidt, O. 1886 A, 213, fig. 38.
Schuchert and Levene 1927 A, 346, fig.
Scott, W. B. 1913 A, 685, figs. 133, 154.
1917 A, 102, 105.
Sefve, I. 1927 A, 81.
Shufeldt, R. W. 1889 D, 11, fig.
Sinclair, W. J. 1905 D, 483.
1924 A, 122.
1925 A, 61.
Stehlin, H. G. 1905 A, 549, 556, 578.
Steinmann, G. 1907 A, 491.
Thorpe, M. R. 1923 E, 241.
1927 A, 168.
Trouessart, E. L. 1905 A, 616 (Subg. of Miohippus).
Underhill, B. M. 1907 A, 117, 120, fig. 1.
Wallace, A. R. 1876 A, I, 135.
Weber, M. 1904 A, 620.
Weber and Abel 1928 A, xxiii, 679.
Winge, H. 1906 A, 149 (Mesippus).
Wright, R. R. 1883 A, 250.
Zittel and Schlosser 1911 A, 500.
1923 A, 546, 670.

Mesohippus assiniboiensis Lambe.

Lambe, L. M. 1905 C, 50, 51, pl. ii, fig. 8.
1908 A, 10, 37, pl. iii, figs. 22-24.
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1918 A, 10, 37, 44, text-fig. 24.
Lower Oligocene (White River); Assiniboia.

Mesohippus bairdi Leidy.

Hay, O. P. 1902 A, 613 (Miohippus).
Abel, O. 1926 A, 243 (M. bairdii).
1926 B, 322, 397, 414, figs. 253, 264, 269.
1926 H, (160) (M. bairdii).
1928 B, 29, 33, figs. 11, 15, 19 (M. bairdii).
Ameghino, F. 1889 A, 556, 557 (Anchitherium).
Cook, H. J. 1912 D, 37 (M. bairdii).
Darton, N. H. 1905 A, 173.
Douglass, E. 1901 B, 242 (Miohippus).
1903 A, 150.
1908 B, 270.
Gaudry, A. 1906 A, 25.
Gervais, P. 1859 A, 360 (Anchitherium).
Gidley, J. W. 1903 B, 474, 476.
1927 D, 269, fig.
Giebel, C. G. 1883 A, pl. xliii (Anchitherium).
Lambe, L. M. 1908 A, 35.
Lankester, E. R. 1905 A, 141, fig. 97.
Loomis, F. B. 1926 A, 102, pl. viii.
Lull, R. S. 1907 A, 174.
Lydekker, R. 1912 A, 268 (Miohippus).
Marsh, O. C. 1874 E, 290 (Anchitherium).
Major, C. J. F. 1877 A, 4 (Anchitherium).
Matthew, W. D. 1901 B, 357, 369, 371.
1902 H, 40.
1903 A, 16, fig. 2 (Miohippus).
1909 C. 106.
1913 F, 18, figs. 8, 19.
1926 C, 151, fig. 7.
Merrill, G. P. 1907 A, 22 (Anchitherium); 48 (Mesohippus); 53 (Palæotherium).
O'Harra, C. C. 1910 A, 96, pls. xxxi, xxxii.
1920 A, 152, pls. xvi, xxxiii.
Osborn, H. F. 1902 H, 715.
1904 B, 168, 172, pl. iv; text-fig. 3.
1904 F, 13, 36.
1905 H, 206.
1905 I, 92.
1918 A, 5, 6, 11, 37, 45, pl. i, figs. 3, 4; pl. ii, figs. 4, 13; pl. xxxix, figs. 15, 19; pl. li, figs. 7, 11; text-figs. 25, 26.
Schlosser, M. 1898 C, 373.
1899 R, 316.
Scott, W. B. 1913 A, 300, fig. 152.
Sinclair, W. J. 1905 A, 142.
1924 A, 99, 101, 102, 122, fig. 8 (M. bairdii).
Stehlin, H. G. 1905 A, 578.
Trouessart, E. L. 1905 A, 616.
Veith, A. 1912 A, 12, 21 (Mesohippus, Anchitherium).
Weber and Abel 1928 A, 678, fig. 465.
Woodward, A. S. 1898 B, 327, fig. 187.

Zittel and Schlosser 1911 A, 460, fig. 641.
1923 A, 546, fig. 680.
Middle Oligocene (Brule); South Dakota, Nebraska, Colorado?, Montana?.

Mesohippus celer (Marsh).

Hay, O. P. 1902 A, 613 (Miohippus).
Abel, O. 1912 F, 234, fig. 162.
1913 B, 754, fig. 102.
1914 A, 136, fig. 94.
1914 D, 26, fig. 1.
1920 A, 449, fig. 686.
1922 C, 274, fig. 231.
Cook, H. J. 1912 D, 34.
Lambe, L. M. 1905 A, 245.
Lull, R. S. 1907 A, 174, fig. 9.
Marsh, O. C. 1874 E, 290 (Anchitherium).
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1920 A, 159.
Osborn, H. F. 1904 B, 168, 169.
1918 A, 10, 36, 37, pl. ii, fig. 9; text-fig. 17.
Zittel and Schlosser 1911 A, 460, fig. 640.
Lower Oligocene (Chadron); South Dakota, Nebraska.

Mesohippus cuneatus (Cope).

Hay, O. P. 1902 A, 614 (Miohippus).
Osborn, H. F. 1918 A, 11, 37, 47.
Middle Oligocene (Cedar Creek); Colorado.

Mesohippus eulophus Osborn.

Osborn, H. F. 1904 B, 173, fig. 5.
Matthew, W. D. 1909 C, 106.
Osborn, H. F. 1918 A, 11, 37, 49, pl. i, fig. 6; pl. ii, fig. 8; text-fig. 29.
Veith, A. 1912 A, 16.
Middle Oligocene (Cedar Creek); Colorado.

Mesohippus exoletus (Cope).

Hay, O. P. 1902 A, 614 (Miohippus).
Matthew, W. D. 1909 C, 106.
Osborn, H. F., 1904 B, 173.
1918 A, 11, 37, 47.
Trouessart, E. L. 1905 A, 616 (Syn. of M. bairdii).
Middle Oligocene (Cedar Creek); Colorado.

Mesohippus grallipes Sinclair.

Sinclair, W. J. 1925 A, 58, 61, pl. iii, fig. 1.
Loomis, F. B. 1926 A, 106, pl. ix.
Upper Oligocene (Protoceras); South Dakota.

Mesohippus hypostylus Osborn.

Osborn, H. F. 1904 B, 170, pl. v *a*; text-fig. 2.
Abel, O. 1928 B, 38, figs. 16, 19.
Cook, H. J. 1912 D, 34.
Douglass, E. 1908 B, 269, pl. lxv, figs. 7-9 (This species?).
Matthew, W. D. 1909 C, 101.
O'Harra, C. C. 1920 A, 149.
Osborn, H. F. 1918 A, 6, 10, 37, 41, pl. i, fig. 2; pl. ii, fig. 3; text-fig. 22.
Lower Oligocene (Chadron); South Dakota, Nebraska.

Mesohippus latidens Douglass.

Douglass, E. 1903 A, 161, fig. 7.
Lambe, L. M. 1905 A, 244.
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1904 B, 168, 170.
1918 A, 10, 37, 39, text-fig. 19.
Lower Oligocene (Thompson's Creek); Montana.

Mesohippus montanensis Osborn.

Osborn, H. F. 1904 B, 170.
Lambe, L. M. 1905 A, 245.
1905 C, 46.
1908 A, 31.
Matthew, W. D. 1909 C, 104.
1913 F, 28, fig. 19.
1926 C, 151, fig. 7.
Osborn, H. F. 1918 A, 10, 37, 39, pl. ii, fig. 1; text-fig. 20.
Lower Oligocene (White River); Montana.

Mesohippus obliquidens Osborn.

Osborn, H. F. 1904 B, 173, pl. v *c*; text-fig. 4.
Cook, H. J. 1912 D, 37.
Matthew, W. D. 1909 C, 106.
O'Harra, C. C. 1920 A, 152.
Osborn, H. F. 1918 A, 11, 37, 48, pl. i, fig. 5; pl. ii, fig. 7; text-fig. 28.
Middle Oligocene (Brule); South Dakota, Nebraska.

Mesohippus planidens Lambe.

Lambe, L. M. 1905 C, 49, 51, pl. ii, fig. 7.
1908 A, 10, 37, 38, pl. iii, fig. 21.
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1918 A, 10, 37, 44, text-fig. 24.
Lower Oligocene (White River); Assiniboia.

Mesohippus portentus Douglass.

Douglass, E. 1908 B, 268, pl. lxv, figs. 1-4.
Loomis, F. B. 1926 A, 104.
Osborn, H. F. 1918 A, 10, 37, 40, text-fig. 21.
Lower Oligocene (White River); Montana.

Mesohippus præcocidens Lambe.

Lambe, L. M. 1905 C, 46, 51, pl. ii, fig. 2.
1908 A, 10, 34, 38, pl. iii, fig. 14.
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1918 A, 10, 37, 42, text-fig. 24.
Lower Oligocene (White River); Assiniboia.

Mesohippus propinquus Lambe.

Lambe, L. M. 1905 C, 47, 51, pl. ii, figs. 3, 4.
1908 A, 10, 35, 38, pl. iii, figs. 15, 16.
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1918 A, 10, 37, 43, text-fig. 24.
Lower Oligocene (White River); Assiniboia.

Mesohippus proteulophus Osborn.

Osborn, H. F. 1904 B, 171.
Abel, O. 1926 B, 404, fig. 257.
1928 B, 32.
Cook, H. J. 1912 D, 34.
Loomis, F. B. 1926 A, 104.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1920 A, 149.

Osborn, H. F. 1918 A, 10, 37, 41, pl. i, fig. 1; pl. ii, fig. 2; text-fig. 23.
Lower Oligocene (White River); South Dakota, Nebraska.

Mesohippus stenolophus Lambe.

Lambe, L. M. 1905 C, 48, 51, pl. ii, fig. 6.
1908 A, 10, 36, 38, pl. iii, figs. 18-20.
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1918 A, 37, 43, text-fig. 24.
Lower Oligocene (White River); Assiniboia.

Mesohippus trigonostylus Osborn.

Osborn, H. F. 1918 A, 5, 11, 37, 47, pl. ii, figs. 5, 6; text-fig. 27.
O'Harra, C. C. 1920 A, 152.
Sinclair, W. J. 1924 A, 124.
Middle Oligocene (Brule); South Dakota.

Mesohippus westoni (Cope).

Hay, O. P. 1902 A, 614 (Miohippus).
Lambe, L. M. 1904 C, 27, 38, 50.
1905 A, 243, pl. xiv.
1905 C, 44, 51, pl. ii, fig. 1.
1905 D, 367 A.
1908 A, 10, 33, 38, pl. iii, figs. 10-13.
Matthew, W. D. 1903 B, 218.
Osborn, H. F. 1903 G, 699.
1904 B, 168, 169.
1918 A, 10, 37, 38, pl. ii, fig. 10; text-fig. 18.
Lower Oligocene (Cypress Hills); Canada.

Mesohippus sp. indet.

Lambe, L. M. 1905 D, 367A. Oligocene (Cypress Hills); Canada.
Matthew, W. D. 1901 B, 356.
Osborn, H. F. 1904 B, 168.
1918 A, 16. Miocene (Alum Bluff); Florida.
Wanless, H. R. 1923 A, 220. Lower Oligocene (White River); Nebraska.

MIOHIPPUS Marsh. Type *M. annectans* Marsh.

Hay, O. P. 1902 A, 612.
Abel, O. 1919 A, 862.
1926 B, 396, 399, 415, 451.
1926 H, (161).
1928 B, 36, 93.
Arldt, T. 1907 D, 665.
Beddard, F. E. 1902 A, 248, 249.
Depéret, C. 1912 A, 710.
Fairchild, H. L. 1894 A, 209.
Fürbringer, M. 1902 A, 203 (Mesohippus, Miohippus).
Gidley, J. W. 1906 D, 386.
Gregory, W. K. 1920 B, 269.
1927 J, 444, figs. 1, 2.
Haug, E. 1911 A, 1529, 1705.
Heilprin, A. 1887 A, 371, 372.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1926 A, 65, 108, 111, figs. 9, 21.
Lull, R. S. 1907 A, 173, 175, fig. 4.
1917 B, 611.
Lydekker, R. 1904 A, 18.
1912 A, 266.
Marsh, O. C. 1874 E, 289, 291, fig. 75.
Matsumoto, H. 1921 A, 75, 88.
Matthew, W. D. 1902 H, 40 (Anchitherium).
1907 A, 175.
1909 C, 111.
1913 F, 17, figs. 19, 21.
1914 G, 234.
1915 A, 236, 313.
1915 K, 413, 456.
1916 J, 9, 12.
1917 A, 574.
1924 B, 630.
1924 D, 1.
1924 E, 748.
1924 G, 630.
1926 B, 5, 6.
1926 C, 150, 161, 167, fig. 7.
1928 B, 979, fig. 15.
Merriam, J. C. 1913 G, 424.
1915 G, 99.
Noack, T. 1880 A, 78.
O'Harra, C. C. 1910 A, 96, 129.
Osborn, H. F. 1910 B, 227, 230, 555.
1912 G, 246.
1918 A, 4, 5, 22, 51.
Palacký, J. 1903 B, 312.
Palmer, T. S. 1904 A, 426, 937.
Pavlow, M. 1915 A, 35.
Regnault, F. 1903 A, 110.
Scharff, R. F. 1911 A, 147.
Schlosser, M. 1898 C, 373.
1924 A, 68.
Schmidt, O. 1886 A, 213, fig. 38.
Schuchert and Levene 1927 A, 347, fig.
Scott, W. B. 1913 A, 299.
Sefve, I. 1927 A, 81.
Shufeldt, R. W. 1889 D, 11.
Sinclair, W. J. 1924 A, 122.
1925 A, 61.
Thorpe, M. R. 1927 A, 168.
Trouessart, E. L. 1905 A, 616, 617.
Underhill, B. M. 1907 A, 117, 120.
Veith, A. 1912 A, 13.
Wallace, A. R. 1876 A, I, 135.
Wanless, H. C. 1923 A, 231.
Weber, M. 1904 A. 620.
Weber and Abel 1928 A, xxiii, 679.
Wright, R. R. 1883 A, 251.
Zittel and Schlosser 1911 A, 460 (Syn. of Anchitherium).
1923 A, 546, 550, 671, 672.

Miohippus acutidens (Sinclair).

Sinclair, W. J. 1905 A, 141, pl. xviii (Mesohippus).
Abel, O. 1914 A, 248, fig. 219 (Mesohippus).
Loomis, F. B. 1926 A, 112.
Matthew, W. D. 1909 C, 108 (Mesohippus).
Merriam and Sinclair 1907 A, 186, 191, 192 (Mesohippus).
Osborn, H. F. 1909 D, 68 (Mesohippus).
1918 A, 12, 52, 64, pl. iii, figs. 14, 15; text-fig. 43.
Upper Oligocene (John Day); Oregon.

Miohippus anceps Marsh.

Hay, O. P. 1902 A, 613.
Abel, O. 1912 F, 234, fig. 162.
1913 B, 754, fig. 102.
1914 A, 136, fig. 94.
1914 D, 26, fig. 1.
1920 A, 449, fig. 686.
1922 C, 274, fig. 231.
Douglass, E. 1903 A, 151 (This species?).
Joleaud, L. 1919 D, 413 (Kalobatippus).
Loomis, F. B. 1926 A, 109.
Lull, R. S. 1907 A, 176, fig. 10.
Marsh, O. C. 1874 E, 290 (Anchitherium).
Matthew, W. D. 1909 C, 108.
Merriam and Sinclair 1907 A, 186 (Mesohippus).
Osborn, H. F. 1904 B, 168 (This genus?).
1918 A, 12, 52, 58, text-fig. 36.
Upper Oligocene (John Day); Oregon.

Miohippus annectens Marsh.

Hay, O. P. 1902 A, 613.
Douglass, E. 1903 A, 151 (This species?).
Loomis, F. B. 1926 A, 112.
Lull, R. S. 1907 A, 176.
1913 A, 4.
Marsh, O. C. 1874 E, 290, fig. 74.
Matthew, W. D. 1909 C, 108 (M. annectens); 113 (This species?).
Merriam and Sinclair 1907 A, 186 (Mesohippus).
Osborn, H. F. 1904 B, 168.
1918 A, 12, 52, 63, pl. iii, figs. 14, 15; text-fig. 43.
Upper Oligocene (John Day); Oregon: Miocene (Harrison); Montana.

Miohippus blackbergi Hay.

Hay, O. P. 1924 A, 4, pl. i, figs. 4-8; pl. iii, fig. 3.
Upper Miocene (Fleming); Texas.

Miohippus brachylophus (Cope).

Hay, O. P. 1902 A, 613.
Matthew, W. D. 1909 C, 108 (Mesohippus).
Merriam and Sinclair 1907 A, 186 (Mesohippus).
Osborn, H. F. 1904 B, 168 (Mesohippus).
1918 A, 12, 52, 60, pl. iii, fig. 9; pl. v, fig. 3; text-fig. 38.
Upper Oligocene (John Day); Oregon.

Miohippus brachystylus (Osborn).

Osborn, H. F. 1904 B, 175, pl. v *e*; text-fig. 6 (Mesohippus).
Cook, H. J. 1912 D, 38 (Mesohippus).
Douglass, E. 1908 B, 270, pl. lxv, figs. 5, 6 (Mesohippus. This species?).
Lambe, L. M. 1905 C, 48, 51, pl. ii, fig. 5 (Mesohippus).
1908 A, 10, 36, pl. iii, fig. 17 (Mesohippus).
Loomis, F. B. 1926 A, 108.
Matthew, W. D. 1909 C, 104 (Mesohippus brachystylus); 108 (Mesohippus brachystylus?).
O'Harra, C. C. 1920 A, 154 (Mesohippus).
Osborn, H. F. 1918 A, 5, 12, 51, 52, pl. i, fig. 8; pl. iii, fig. 2; text-fig. 31.
Sinclair, W. J. 1905 A, 142 (Mesohippus).
Lower Oligocene (White River); Canada: Upper Oligocene (Brule); South Dakota, Nebraska.

Miohippus condoni (Leidy).

Hay, O. P. 1902 A, 613.
Loomis, F. B. 1926 A, 112.
Marsh, O. C. 1874 E, 290.
Matthew, W. D. 1909 C, 108.
Merriam, J. C. 1907 A, 186 (Mesohippus).
Osborn, H. F. 1904 B, 168.
1918 A, 12, 52, 63, pl. iii, fig. 12; text-fig. 42.
Upper Oligocene (John Day); Oregon.

Miohippus crassicuspis Osborn.

Osborn, H. F. 1904 B, 178.
Cook, H. J. 1912 D, 38.
Loomis, F. B. 1926 A, 108.
Matthew, W. D. 1909 C, 108.
O'Harra, C. C. 1920 A, 154.
Osborn, H. F. 1904 B, 177 (M. crassicuspis, Mesohippus copei, in part).
1904 F, 13 (Mesohippus copei, limb).
1918 A, 12, 50, 52, 57, pl. iii, fig. 11; text-fig. 35.
Upper Oligocene (Brule); South Dakota, Nebraska.

Miohippus equiceps (Cope).

Hay, O. P. 1902 A, 614.
Loomis, F. B. 1926 A, 109.
Matthew, W. D. 1909 C, 108 (Mesohippus equiceps); 113 (Mesohippus equiceps?).
Merriam and Sinclair 1907 A, 186, 188, 189, 190, 191, 192 (Mesohippus).
Osborn, H. F. 1904 B, 168 (Mesohippus).
1918 A, 12, 52, 59, pl. iii, fig. 10; pl. v, figs. 4, 5; pl. vi, fig. 1; text-fig. 37.
Upper Oligocene (John Day); Oregon: Lower Miocene? (Harrison); Montana.

Miohippus equinanus Osborn.

Osborn, H. F. 1918 A, 13, 52, 65, pl. iii, fig. 6; text-fig. 45.
Hay, O. P. 1924 A, 5.
Loomis, F. B. 1926 A, 113.
O'Harra, C. C. 1920 A, 156.
Lower Miocene (Lower Rosebud); South Dakota.

Miohippus gemmarosæ Osborn.

Osborn, H. F. 1918 A, 6, 13, 52, 66, pl. iii, fig. 7; pl. iv, figs. 1-4, 9; text-figs. 46, 47.
Abel, O. 1928 B, 41, fig. 19.
Hay, O. P. 1924 A, 6.
Loomis, F. B. 1926 A, 113.
O'Harra, C. C. 1920 A, 156.
Lower Miocene (Lower Rosebud); South Dakota.

Miohippus gidleyi Osborn.

Osborn, H. F. 1904 B, 178, pl. v *g*; text-fig. 8.
Cook, H. J. 1912 D, 38.
Loomis, F. B. 1926 A, 108.
Matthew, W. D. 1909 C, 108.
O'Harra, C. C. 1920 A, 154.
Osborn, H. F. 1918 A, 5, 12, 52, 56, pl. i, fig. 10; pl. iii, fig. 4; pl. xxxix, figs. 1, 16, 19; pl. li, figs. 8, 12; text-fig 34.

Sinclair, W. J. 1925 A, 58.
Upper Oligocene (Brule); South Dakota, Nebraska.

Miohippus intermedius Osborn and Wortman.

Hay, O. P. 1902 A, 614.
Cook, H. J. 1912 D, 38 (Mesohippus).
Lambe, L. M. 1905 C, 49 (Mesohippus).
Loomis, F. B. 1926 A, 108, pl. ix.
Lull, R. S. 1907 A, 174 (Mesohippus).
Lydekker, R. 1912 A, 268.
Matthew, W. D. 1901 B, 370, 371 (Mesohippus).
1909 C, 108 (Mesohippus).
1926 C, 155, figs. 12, 13.
O'Harra, C. C. 1910 A, 97, pl. xxxiii, fig. 2.
1920 A, 103, 154, fig. 42 (Mesohippus).
Osborn, H. F. 1904 B, 168, 176, fig. 7 (Mesohippus).
1904 F, 13 (Mesohippus).
1918 A, 12, 52, 54, pl. i, fig. 9; pl. iii, fig. 3; text-fig. 32.
Schlosser, M. 1898 C, 373 (Mesohippus).
1899 R, 316, 317 (Mesohippus).
Sinclair, W. J. 1925 A, 55, pl. iii, fig. 2.
Stromer, E. 1912 A, 203, fig. 188 (Mesohippus).
Veith, A. 1912 A, 12, 22 (Mesohippus).
Weber and Abel 1928 A, 678, fig. 465.
Woodward, A. S. 1898 B, 328, fig. 188 (Mesohippus).
Upper Oligocene (Brule); South Dakota, Nebraska.

Miohippus longicristis (Cope).

Hay, O. P. 1902 A, 614.
Matthew, W. D. 1909 C, 108.
Merriam and Sinclair 1907 A, 186 (Mesohippus).
Osborn, H. F. 1904 B, 168 (Mesohippus).
1918 A, 12, 52, 61, pl. v, fig. 1.
Upper Oligocene (John Day); Oregon.

Miohippus meteulophus (Osborn).

Osborn, H. F. 1904 B, 174, pl. v *d* (Mesohippus).
Cook, H. J. 1912 D, 38 (Mesohippus).
Gregory, W. K. 1920 B, pl. xviii.
Loomis, F. B. 1926 A, 108.
Lull, R. S. 1913 A, 3 (Mesohippus).
Matthew, W. D. 1909 C, 108 (Mesohippus).
O'Harra, C. C. 1920 A, 154 (Mesohippus).
Osborn, H. F. 1918 A, 12, 51, 52, pl. i, fig. 7; pl. iii, fig. 1; text-fig. 30.
Upper Oligocene (Brule); South Dakota, Nebraska.

Miohippus navasotæ Hay.

Hay, O. P. 1924 A, 5, pl. i, figs. 9-13.
Upper Miocene (Fleming); Texas.

Miohippus primus Osborn.

Osborn, H. F. 1918 A, 12, 52, 61, pl. iii, fig. 13; pl. iv, fig. 5; text-fig. 39.
Loomis, F. B. 1926 A, 109.
Upper Oligocene (Middle John Day); Oregon.

Miohippus quartus Osborn.

Osborn, H. F. 1918 A, 12, 52, 62, pl. iii, fig. 8; pl. iv, figs. 6, 8; pl. v, fig. 2; text-figs. 40, 41.
Matthew, W. D. 1926 C, 155, fig. 11.
Upper Oligocene (John Day); Oregon.

Miohippus validus (Osborn).

Osborn, H. F. 1904 B, 177 (Mesohippus).
Abel, O. 1928 B, 39, fig. 17.
Cook, H. J. 1912 D, 38.
Loomis, F. B. 1926 A, 108.
Matthew, W. D. 1909 C, 108.
O'Harra, C. C. 1920 A, 154.
Osborn, H. F. 1918 A, 12, 52, 55, pl. i, fig. 4; pl. iii, fig. 5; text-fig. 33.
Sinclair, W. J. 1925 A, 58, 62.
Upper Oligocene (Brule); South Dakota, Nebraska.

ANCHITHERIUM Meyer. Type *A. aurelianense* (Blainville).

Hay, O. P. 1902 A, 615.
Abel, O. 1909 E (246).
1912 C, (61).
1912 F, 235, fig. 164.
1913 B, 754a, fig. 104.
1914 A, 246.
1926 H, (162), (163) (Kalobatippus).
1928 B, 63, 68, figs. 40, 41 (Anchitherium); 63, 71, 82 (Kalobatippus).
Ameghino, F. 1889 A, 1006.
1904 A, 126, 231, 232.
Antonius, O. 1913 A, 245.
Arldt, T. 1907 D, 255, 257.
Beddard, F. E. 1902 A, 248.
Boas, J. E. V. 1914 B, 597, figs. 43, 44.
Boule, M. 1905 A, 1664.
Bronn, H. G. 1848 A, 72.
1849 A, 706.
Case, E. C. 1899 B, 164.
Condon, T. 1902 A, 127, pls. xxii, xxiii ("Anchitherium").
Depéret, C. 1905 A, 1518.
Edinger, T. 1928 A, 390, fig. 7.
Flower, W. H. 1892 A, 38, 72.
Fejérváry, G. J. de 1921 B, 183.
Gaudry, A. 1875 D, 1282.
1896 A, 87, fig. 62.
Gervais, P. 1859 A, 83.
Gidley, J. W. 1907 A, 867.
Gregory, W. K. 1920 B, 269 (Kalobatippus).
Heilprin, A. 1887 A, 371, 372.
Hoernes, R. 1886 A, 671.
Huxley, T. H. 1870 F, 533.
1876 F, 185.
Joleaud, L. 1919 D, 412.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1926 A, 108, 113, 115 (Kalobatippus).
Lull, R. S. 1913 A, 13.
1917 B, 611.
Lydekker, R. 1904 A, 18, fig. 3.
1907 A, 5.
1912 A, 263, 266.
1912 B, 221.
Marsh, O. C. 1874 E, 291.
Matsumoto, H. 1921 A, 88 (Kalobatippus).

Matthew, W. D. 1901 B, 369, 374, 445.
    1903 A, 19.
    1907 A, 172, 178.
    1909 C, 111, 119.
    1913 F, 17, 25, fig. 16.
    1915 A, 236, 314.
    1915 K, 456.
    1924 E, 748 (Kalobatippus).
    1926 C, 166, 167 (Kalobatippus).
    1928 B, 979, fig. 15.
Merriam, J. C. 1913 G, 424.
Osborn, H. F. 1901 F, 499.
    1901 G, 159.
    1902 H, 715.
    1907 G, 162, figs. 135, 161, 164.
    1909 D, 75.
    1910 B, 606.
    1912 G, 246, fig. 9.
    1915, in Cope and Matthew 1915 A, pl. cviii (Kalobatippus; type *Anchitherium præstans* Cope).
    1918 A, 4, 5 (Anchitherium); 4, 5, 69 (Kalobatippus).
Palmer, T. S. 1904 A, 102, 937.
Pictet, F. J. 1853 A, 313.
Scharff, R. F. 1911 A, 148.
Schlosser, M. 1903 I, 76, 211, 219.
Schmidt, O. 1886 A, 203, fig. 36.
Scott, W. B. 1913 A, 299.
Seeley, H. G. 1878 A, 224.
Sefve, I. 1927 A, 80.
Thorpe, M. R. 1927 A, 168.
Tims, H. W. M. 1903 A, 143, fig. 3*b*.
Tornier, G. 1888 A, 303.
Underhill, B. M. 1907 A, 117.
Veith, A. 1912 A, 5.
Wallace, A. R. 1876 A, I, 119, 125, 135.
Weber, M. 1904 A, 620.
Weber and Abel 1928 A, xix, 417, 677, 683, fig. 260.
Winge, H. 1906 A, 149.
Zittel, K. A. 1897 A, 126.
Zittel and Schlosser 1911 A, 460.
    1923 A, 541, figs. 670, 671.

Anchitherium agatense (Osborn).

Osborn, H. F. 1918 A, 13, 69, 71, pl. v, fig. 7; pl. xxxix, figs. 17, 20, 40; text-fig. 50 (Kalobatippus).
Abel, O. 1926 B, 435, 448 (Kalobatippus).
Joleaud, L. 1919 D, 413 (Kalobatippus).
Loomis, F. B. 1926 A, 119, fig. 26 (Kalobatippus).
Miller, G. S. 1920 B, 191 (Kalobatippus).
O'Harra, C. C. 1920 A, 157 (Kalobatippus).
Romer, A. S. 1926 B, 326, figs. 1-4.
    Lower Miocene (Lower Harrison); Nebraska.

Anchitherium gracile (Marsh).

Hay, O. P. 1902 A, 618 (Pliohippus).
Gidley, J. W. 1907 A, 875, 911 (Pliohippus).
Lull, R. S. 1907 A, 178 (Pliohippus).
Matthew, W. D. 1909 C, 117 (Protohippus).
Osborn, H. F. 1918 A, 16, 69, 71, text-figs. 49, 51 (Kalobatippus).
Romer, A. S. 1926 B, 332 (Kalobatippus).
Trouessart, E. L. 1905 A, 639 (Pliohippus).
Troxell, E. L. 1916 A, 344 (Pliohippus).
    Lower Miocene (Upper John Day); Oregon.

Anchitherium præstans (Cope).

Hay, O. P. 1902 A, 614 (Miohippus).
Cope and Matthew 1915 A, pl. cviii, figs. 1-8 (Anchitherium, Kalobatippus).
Gregory, W. K. 1920 B, pl. xviii (Kalobatippus).
Joleaud, L. 1919 D, 413 (Kalobatippus).
Loomis, F. B. 1926 A, 114, fig. 22 (Kalobatippus).
Matthew, W. D. 1909 C, 108.
Miller, G. S. 1920 B, 191 (Kalobatippus).
Osborn, H. F. 1904 B, 168.
    1909 D, 68.
    1918 A, 12, 69, 70, pl. v, figs. 6, 10, 12; pl. vi, fig. 3; pl. li, figs. 10, 14; text-figs. 48-51 (Kalobatippus).
Romer, A. S. 1926 B, 327 (Kalobatippus).
Schlosser, M. 1898 C, 374.
    1899 R, 317 (Mesohippus).
Zittel and Schlosser 1923 A, 546.
    Lower Miocene (Upper John Day); Oregon.

HYPOHIPPUS Leidy. Type *H. affinis* Leidy.

Hay, O. P. 1902 A, 615.
Abel, O. 1909 E, (247).
    1914 A, 246.
    1926 B, 396, 399, 435, 447.
    1928 B, 63, 70, fig. 43.
Ameghino, F. 1904 A, 266, 493.
Anonymous 1908 B, 122.
Arldt, T. 1909 C, 458.
Barbour, E. H. 1914 A, 171.
Beasley, W. L. 1903 A, 451.
Douglass, E. 1909 A, 477.
Gidley, J. W. 1904 B, 191, 194.
    1906 D, 386.
    1907 A, 867, 880.
    1908 B, 237.
Gregory, W. K. 1908 A, 122.
    1912 F, 286.
    1917 D, 633, fig. 1.
    1920 B, 269.
Haug, E. 1911 A, 1705, 1706.
Loomis, F. B. 1910 C, 293 (Hyohippus)
    1925 A, 248.
    1926 A, 18, fig. 6.
Lull, R. S. 1904 C, 6.
    1907 A, 177.
    1913 A, 12.
    1917 B, 224, 298, 611, fig. 219.
Lydekker, R. 1912 A, 261, fig.
Matsomoto, H. 1921 A, 75, 85, 88.
Matthew, W. D. 1903 A, 19, pls. v, vi.
    1907 A, 175.
    1908 I, 122.
    1909 C, 119.
    1913 F, 17, 25, fig. 16.
    1915 A, 236, 313.
    1915 K, 456.
    1916 J, 11.
    1918 A, 211.
    1924 C, 69, 153, 157, 171 (Hypohippus); 172 (Drymohippus)

Matthew, W. D. 1924 E, 748.
1926 C, 166, 167.
1926 D, 453, fig. 5.
Matthew and Cook 1909 A, 386.
Merriam, J. C. 1907 A, 381.
1911 B, 206, 208, 215, 217, 221, 258.
1913 G, 424 (Hypohippus); 420 (subgenus Drymohippus, type *D. nevadensis*).
1915 F, 255.
1916 A, 181 (Hypohippus, Drymohippus).
1917 A, 443.
1919 A, 472.
Osborn, H. F. 1904 O, 156.
1904 R, 9.
1905 I, 92, pl. x.
1905 J, 282.
1905 K, 608.
1909 D, 78, 80, 81.
1910 B, 618, fig. 148.
1915 B, 222.
1917 B, 266, 267, fig.
1918 A, 4, 5, 15, 20, 22, 28, 29, 203.
Palmer, T. S. 1904 A, 342, 937.
Pavlow, M. W. 1925 A, 317.
Romer, A. S. 1926 B, 332.
Schlosser, M. 1924 A, 68.
Scott, W. B. 1913 A, 297, 300.
Stock, C. 1926 A, 62.
Thorpe, M. R. 1927 A, 168.
Trouessart, E. L. 1905 A, 618.
Troxell, E. L. 1916 A, 339.
Weber and Abel 1928 A, 677, 683.
Winge, H. 1906 A, 149 (Hyphippus).
Zittel and Schlosser 1911 A, 461.
1923 A, 547, 673, 679.

Hypohippus affinis Leidy.

Hay, O. P. 1902 A, 615.
Ameghino, F. 1904 A, 260, fig. 362.
Barbour, E. H. 1914 A, 173, fig. 1.
Cook, H. J. 1912 D, 44 (This species?).
Gidley, J. W. 1906 C, 135, fig. 1.
1907 A, 879.
Loomis, F. B. 1926 A, 118.
Matthew, W. D. 1909 C, 117.
1918 A, 186, 211 (This species?)
1924 C, 66.
Merriam, J. C. 1911 B, 258.
1913 G, 421.
1917 A, 436 (This species?).
1919 A, 450, 472, 527, figs. 28-31 (This species?).
Merrill, G. P. 1907 A, 22 (Anchitherium); 42 (Hypohippus).
O'Harra, C. C. 1920 A, 158.
Osborn, H. F. 1918 A, 25, 28, 204, 207, pl. xxxv, fig. 1; text-fig. 169.
Palacký, J. 1903 B, 317 (Hyohippus).
Sinclair, W. J. 1915 A, 76 (This species?).

Upper Miocene or Lower Pliocene (Niobrara River); Nebraska: Pliocene (Snake Creek); Nebraska: Miocene (Barstow); California.

Hypohippus equinus (Scott).

Hay, O. P. 1902 A, 615 (Anchitherium).
Abel, O. 1912 F, 234, fig. 162.
1913 B, 754, fig. 102.
1914 A, 136, fig. 94.
Abel, O. 1914 D, 26, fig. 1.
1920 A, 449, fig. 686.
1922 C, 274, fig. 231.
1926 B, 400.
Ameghino, F. 1904 A, 230, 231, fig. 306.
Beddard, F. E. 1902 A, 249.
Gidley, J. W. 1904 B, 192.
1907 A, 875, 923.
1908 B, 236, fig. 1 (This species?).
Lull, R. S. 1907 A, 176, fig. 11.
1917 B, 615, fig. 219.
Matsumoto, H. 1921 A, 75.
Matthew, W. D. 1909 C, 115.
1924 C, 171.
Merriam, J. C. 1911 B, 258.
Osborn, H. F. 1904 F, 13, 14, 35.
1918 A, 16, 17, 203, 204, text-fig. 167.
Romer, A. S. 1926 B, 326.
Trouessart, E. L. 1905 A, 617 (Anchitherium).

Middle Miocene (Deep River); Montana, Colorado; (Virgin Valley); Nevada.

Hypohippus matthewi Barbour.

Barbour, E. H. 1914 A, 171, pls. i, ii.
Abel, O. 1926 B, 399, 424, 435, fig. 270.
1928 B, 70.
Barbour and Cook 1917 A, 172.
Loomis, F. B. 1926 A, 118.
Osborn, H. F. 1918 A, 29, 204, 209, text-fig. 171.
Stock, C. 1926 A, 62.

Upper Miocene or Lower Pliocene (Devil's Gulch), Nebraska.

Hypohippus nevadensis Merriam.

Merriam, J. C. 1913 G, 420, 421, figs. 1, 2 [Hypohippus (Drymohippus)].
Clark, B. L. 1921 A, table.
Loomis, F. B. 1926 A, 118.
Louderback, G. D. 1924 A, 9.
Merriam, J. C. 1916 A, 182, figs. 18, 19 [Hypohippus (Drymohippus)].
Osborn, H. F. 1918 A, 22, 204, 208, text-fig. 170.
Stock, C. 1926 A, 62, pl. xi; text-fig. 1 [Hypohippus (Drymohippus)].

Miocene (Stewart Valley); Nevada: (Cedar Mountain); California.

Hypohippus osborni Gidley.

Gidley, J. W. 1907 A, 876, 930.
Abel, O. 1928 B, 70, fig. 42.
Gidley, J. W. 1927 D, 268, fig.
Gregory, W. K. 1920 B, 273, pl. xviii.
Loomis, F. B. 1926 A, 12, 116, pl. ii, figs. 22, 26.
Louderback, G. D. 1924 A, 9 (This species?).
Lydekker, R. 1912 A, 264.
Matthew, W. D. 1909 C, 115.
1924 C, 66, 72, 171.
1926 C, 166, fig. 14.
Matthew and Cook 1909 A, 386.
Merriam, J. C. 1911 B, 205, 214, figs. 25-28 (This species?).
1913 G, 421.
1916 A, 186, fig. 20 (This species?).
Osborn, H. F. 1910 B, 295, fig. 147.
1918 A, 17, 19, 204, 207, pl. v, fig. 9; pl. vi, fig. 4; pl. xxxv, figs. 2, 4; pl. xxxix, figs. 8, 11; pl. li, figs. 2, 5; text-figs. 51, 168.
Peterson, O. A. 1906 C, 57.

Romer, A. S. 1926 B, 335.
Stock, C. 1926 A, 62.
Upper Miocene (Pawnee Creek); Colorado: (Lower Snake Creek); Nebraska: (Virgin Valley); Nevada: (Cedar Mt.); California.

Hypohippus pertinax Matthew.

Matthew, W. D. 1918 A, 186, 211.
1924 C, 66, 171.
Osborn, H. F. 1918 A, 28.
Upper and Middle Miocene (Snake Creek, Sheep Creek); Nebraska.

Hypohippus sp. indet.

Buwalda, J. P. 1916 A, 80. Miocene (Mojave Desert); California.
Buwalda, J. P. 1924 A, 572. Middle Neocene (Payette); Idaho.
Gidley, J. W. 1906 C, 136, fig. 2. Miocene; South Dakota.
1908 B, 240, figs. 4, 5 (This genus?). Miocene (Virgin Valley); Nevada.
Matthew, W. D. 1909 C, 115, 117. Miocene (Middle); Colorado: (Arikaree); South Dakota.
Merriam, J. C. 1911 B, 259, fig. 24. Miocene (Virgin Valley); Nevada.
1917 A, 436, 438.
Sinclair, W. J. 1915 A, 76. Pliocene (Snake Creek); Nebraska: (Republican River); Kansas.

EQUINÆ.

Hay, O. P. 1902 A, 616.
Antonius, O. 1919 A, 275.
Arldt, T. 1907 D, 257.
1909 C, 458 ("equinen," "protohippinen").
1912 A, 746 (Equinæ); 700, 746 (Protohippinæ).
Gidley, J. W. 1907 A, 869, 871 (Equinæ); 868, 871, 934 (Protohippinæ).
Hay, O. P. 1914 A, 151 (Equinæ); 146 (Protohippinæ).
Lydekker, R. 1912 A, 262 (Protohippinæ).
Matthew, W. D. 1907 A, 175 (Protohippinæ).
Osborn, H. F. 1909 D, 8 6(Equinæ); 78 (Hippotherinæ).
Pavlow, M. W. 1925 A, 317, 320 (Protohippinæ).
Troxell, E. L. 1916 A, 341 (Protohippinæ).
Weber, M. 1904 A, 621.
Zittel and Schlosser 1911 A, 461.
1923 A, 547.

PARAHIPPUS Leidy. Type *Anchitherium cognatum* Leidy.

Leidy, J. 1858 E, 26.
Hay, O. P. 1902 A, 615 (Anchippus, Desmatippus); 616 (Merychippus, in part).
Abel, O. 1909 E, (247).
1912 F, 629.
1914 A, 247.
1926 B, 360, 396, 400, 415, 423, 434, 454, fig. 255 (Parahippus); 396, 435 (Archæohippus).
1926 H, (161) (Parahippus); (162) (Archæohippus).
1928 B, 36, 63, 93 (Parahippus); 67 (Archæohippus).
Ameghino, F. 1904 A, 264 (Anchippus); 265, 493 (Parahippus).
Arldt, T. 1909 C, 458.
Barbour, E. H. 1914 C, 222.
Beddard, F. E. 1902 A, 249 (Desmatippus).
Boas, J. E. V. 1914 B, 597 (Altippus).
Boule and Thevenin 1920 A, 117.
Case, E. C. 1899 B, 164 (Desmatippus).
Cockerell, T. D. A. 1908 B, 683.
Douglass, E. 1908 B, 271 (Altippus, type *A. taxus* Douglass).
Gidley, J. W. 1904 B, 192, 194.
1906 D, 385 (Archæohippus, type *Anchitherium ultimum* Cope).
1907 A, 867, 881, 921.
Gregory, W. K. 1920 B, 269.
1927 J, 444, figs. 1, 2.
Haug, E. 1911 A, 1705, 1706.
Heilmann, G. 1916 A, 122.
Loomis, F. B. 1910 C, 293.
1925 A, 248.
1926 A, 60, 64, 121, figs. 7, 8, 9, 24 (Parahippus); 120 (Archæohippus).
Lull, R. S. 1913 A, 7, 12 (Parahippus, Merychippus).
1917 B, 611.
Lydekker, R. 1912 A, 265 (Parahippus, Anchippodus, Desmathippus).
Major, C. J. F. 1877 A, 5.
Marsh, O. C. 1874 E, 290 (Parahippus); 291 (Anchippus).
Matsumoto, H. 1921 A, 75.
Matthew, W. D. 1901 B, 370, 371, 374 (Anchippus); 373 (Desmatippus).
1907 A, 172, 175, 176, 178 (Parahippus); 175 (Archæohippus).
1909 C, 119 (Parahippus, Archæohippus).
1913 F, 17, 25, figs. 10, 16, 19.
1914 G, 234.
1915 A, 236, 313.
1915 K, 413, 456.
1916 J, 9, 11.
1918 A, 211.
1924 B, 630.
1924 C, 69, 153, 157 (Parahippus); 157 (Desmatippus); 158 (Archæohippus).
1924 D, 1.
1924 E, 748, 751.
1924 G, 630.
1926 B, 5, 6.
1926 C, 150, 161, figs. 7, 15 (Parahippus); 166 (Archæohippus).
1928 B, 979, fig. 15.
Matthew and Cook 1909 A, 386.
Merriam, J. C. 1911 B, 217, 221 (Parahippus); 207 (Archæohippus).
1913 G, 420, 433 (Parahippus); 420, 424, 431 (Archæohippus).
1915 E, 233.
1915 F, 255.

Merriam, J. C. 1919 A, 472, 478 (Parahippus); 476 (Archæohippus).
O'Harra, C. C. 1910 A, 96, 131.
Osborn, H. F. 1904 B, 168 (Miohippus, Parahippus).
1907 F, 872.
1909 D, 132 (Parahippus); 78 (Archæohippus).
1910 B, 627 (Parahippus); 287 (Altippus); 292, 555 (Archæohippus).
1912 G, 247, 249.
1918 A, 4. 5, 20, 22, 24, 74 (Parahippus); 15, 22 (Archæohippus).
Palacký, J. 1903 B, 312 (Desmatippus).
Palmer, T. S. 1904 A, 513, 937 (Parahippus); 101, 937 (Anchippus); 223, 937 (Desmatippus).
Pavlow, M. 1903 A, 181 (Desmotippus).
1915 A, 35 (Desmotippus).
1925 A, 317.
Peterson, O. A. 1906 C, 35.
Scott, W. B. 1913 A, 290 (Desmatippus); 297 (Parahippus).
Sefve, I. 1927 A, 81.
Sellards, E. H. 1916 B, 84, 91 (Parahippus); 86 (Archæohippus).
Thorpe, M. R. 1927 A, 168.
Wallace, A. R. 1876 A, I, 135 (Anchippus); 136 (Parahippus).
Wanless, H. R. 1923 A, 232.
Weber, M. 1904 A, 621 (Desmatippus).
Weber and Abel 1928 A, xxii, 679, 680.
Zittel and Schlosser 1911 A, 461 (Parahippus, Altippus).
1923 A, 546, 550, 673 (Parahippus); 546 (Archæohippus).

Parahippus agrestis (Leidy).

Hay, O. P. 1902 A, 613 (Miohippus).
Dall and Harris 1892 A, 287 (Anchitherium).
Osborn, H. F. 1904 B, 168 (Parahippus?).
1918 A, 15, 75, 86, text-fig. 63.
Sellards, E. H. 1916 B, 86 (Archæohippus).
Miocene? (Red Rock Creek); Montana.

Parahippus australis (Leidy).

Hay, O. P. 1902 A, 613 (Miohippus).
Osborn, H. F. 1904 B, 168 (Hypohippus).
1918 A, 13, 75, 85, text-fig. 60.
Upper Miocene; Texas.

Parahippus avus (Marsh).

Hay, O. P. 1902 A, 616 (Merychippus).
Gidley, J. W. 1907 A, 873, 895 (Parahippus?).
Loomis, F. B. 1926 A, 123.
Matthew, W. D. 1909 C, 115.
Merriam, J. C. 1911 B, 205, 214, 261, fig. 29 (This species?).
Merriam and Sinclair 1907 A, 195 (Protohippus).
Osborn, H. F. 1918 A, 16, 22, 74, 75, 87, pl. vi, fig. 7; pl. viii, figs. 6, 9, 10; pl. ix, fig. 4; text-figs. 64, 65.
Trouessart, E. L. 1905 A, 638 (Merychippus).
Middle Miocene (Mascall); Oregon: (Virgin Valley); Nevada.

Parahippus brevidens (Marsh).

Hay, O. P. 1902 A, 615 (Anchippus).
Abel, O. 1928 B, 36, fig. 19.
Gidley, J. W. 1906 D, 388.
1907 A, 873, 896 (Anchippus).
Lull, R. S. 1913 A, 7.
Marsh, O. C. 1874 E, 291 (Anchippus).
Matthew, W. D. 1909 C, 115.
1924 C, 157 (Parahippus); 159 (Merychippus).
Merriam and Sinclair 1907 A, 195, 196.
Osborn, H. F. 1918 A, 6, 15, 16, 75, 89, pl. viii, fig. 11; text-fig. 66.
Palacký, J. 1903 B, 317 (Anchippus).
Sellards, E. H. 1916 B, 85.
Trouessart, E. L. 1905 A, 618 (Anchippus).
Upper Miocene (Mascall?); Oregon.

Parahippus cognatus Leidy.

Hay, O. P. 1902 A, 617 (Merychippus perditus, in part).
Abel, O. 1928 B, 41.
Ameghino, F. 1904 A, 265.
Cook, H. J. 1912 D, 44 (This species?).
Gidley, J. W. 1906 D, 388.
1907 A, 872, 881.
1908 B, 237.
Loomis, F. B. 1926 A, 123.
Marsh, O. C. 1874 E, 291.
Matthew, W. D. 1909 C, 117.
1918 A, 186.
1924 C, 155, 159, figs. 44-46 (This species?).
Matthew and Cook 1909 A, 386.
Merriam, J. C. 1917 A, 436 (This species?).
Merrill, G. P. 1907 A, 22 (Anchitherium); 54 (Parahippus).
O'Harra, C. C. 1920 A, 154.
Osborn, H. F. 1918 A, 5, 25, 28, 74, 75, 94, pl. viii, fig. 8; pl. ix, fig. 5; pl. xxv, fig. 2; text-fig. 71.
Palacký, J. 1903 B, 317.
Sinclair, W. J. 1915 A, 76 (This species?).
Trouessart, E. L. 1905 A, 618.
Upper Miocene (Niobrara River); Nebraska.

Parahippus coloradensis Gidley.

Gidley, J. W. 1907 A, 876, 932.
Matthew, W. D. 1909 C, 115.
1924 C, 155.
Osborn, H. F. 1918 A, 19, 74, 75, 93, pl. viii, figs. 7, 12; text-fig. 70.
Sellards, E. H. 1916 B, 85.
Lower Pliocene (Pawnee Creek); Colorado.

Parahippus coloradensis præcurrens Osborn.

Osborn, H. F. 1918 A, 13, 74, 75, 83, pl. viii, fig. 1; pl. ix, fig. 1; pl. xxxvi, figs. 2, 3; text-fig. 58.
Abel, O. 1928 B, 42 (P. præcurrens).
Loomis, F. B. 1926 A, 124 (P. præcurrens).
Lower Miocene (Rosebud); Nebraska.

Parahippus crenidens (Scott).

Hay, O. P. 1902 A, 615 (Desmatippus).
Abel, O. 1928 B, 42.
Cook, H. J. 1912 D, 41 (Parahippus).
Gidley, J. W. 1907 A, 875, 921 (Parahippus).
Loomis, F. B. 1926 A, 123.
Matthew, W. D. 1909 C, 115 (Parahippus); 113 (Parahippus. This species?).
Merriam and Sinclair 1903 A, 96 (Desmatippus).

Osborn, H. F. 1918 A, 5, 16, 74, 75, 90, pl. viii, fig. 4; pl. ix, fig. 2; text-fig. 67.
Sellards, E. H. 1916 B, 85 (Parahippus).
Trouessart, E. L. 1905 A, 617 (Desmathippus).
Miocene (Deep River); Montana: Miocene (Sheep Creek); Nebraska.

Parahippus integer Matthew.

Matthew, W. D. 1924 C, 66, 71, 154.
Upper Miocene (Lower Snake Creek); Nebraska.

Parahippus leonensis Sellards.

Sellards, E. H. 1916 B, 83, pl. ii, figs. 3, 6-9, 12.
Osborn, H. F. 1918 A, 16, 75, 95, text-fig. 72.
Miocene (Alum Bluff); Florida.

Parahippus minimus (Douglass).

Hay, O. P. 1902 A, 620 (Hipparion); 795 (Anchitherium).
1924 A, 7.
Osborn, H. F. 1918 A, 27, 75, 96, text-fig. 72*a*.
Trouessart, E. L. 1905 A, 617 (Anchitherium); 640 (Neohipparion).
Lower Pliocene (Madison Valley); Montana.

Parahippus minutalis Hay.

Hay, O. P. 1924 A, 6, pl. i, figs. 14-17.
Upper Miocene (Fleming); Texas.

Parahippus mourningi (Merriam).

Merriam, J. C. 1913 G, 427, figs. 3-5 (Parahippus?).
Loomis, F. B. 1926 A, 120 (Archæohippus).
Matthew, W. D. 1924 C, 158, 159 (Parahippus).
Merriam, J. C. 1919 A, 450, 475, 527, figs. 33, 34 (Parahippus?).
Osborn, H. F. 1918 A, 20, 204, 213, text-fig. 173 (Archæohippus).
Upper Miocene (Barstow); California.

Parahippus nebrascensis Peterson.

Peterson, O. A. 1906 C, 57, pl. xix.
Abel, O. 1928 B, 42.
Cook, H. J. 1912 D, 42.
Loomis, F. B. 1908 B, 163.
1926 A, 123 (P. nebraskensis).
Matthew, W. D. 1909 C, 113.
O'Harra, C. C. 1920 A, 106, 157, fig. 45.
Osborn, H. F. 1918 A, 13, 74, 75, 79, text-fig. 55.
Zittel and Schlosser 1911 A, 461, fig. 643.
1923 A, 546, fig. 682.
Lower Miocene (Upper Harrison); Montana: (Laramie Peak); Wyoming.

Parahippus nebrascensis primus Osborn.

Osborn, H. F. 1918 A, 13, 75, 80, 82, pl. vi, figs. 6, 7; pl. viii, fig. 2; pl. ix, fig. 9; text-fig. 57.
Abel, O. 1928 B, 42 (P. primus).
Gregory, W. K. 1920 B, pl. xviii.
Loomis, F. B. 1926 A, 124 (P. primus).
O'Harra, C. C. 1920 A, 156.
Lower Miocene (Harrison); Nebraska.

Parahippus pawniensis Gidley.

Gidley, J. W. 1907 A, 876, 932.
Abel, O. 1928 B, 42.
Loomis, F. B. 1926 A, 123.
Matthew, W. D. 1909 C, 115.
1926 C, 156, fig. 14.
Osborn, H. F. 1918 A, 74, 75, 92, pl. viii, fig. 5; pl. ix, fig. 3; text-figs. 68, 69.
Sellards, E. H. 1916 B, 85.
Middle Miocene (Pawnee Creek); Colorado.

Parahippus pawniensis atavus Osborn.

Osborn, H. F. 1918 A, 13, 19, 74, 75, 79, pl. xxxviii; pl. xxxix, figs. 9, 13; text-fig. 56.
Abel, O. 1926 B, 400, fig. 225 (P. atavus).
1928 B, 35, fig. 15 (P. atavus).
Matthew, W. D. 1926 C, 157, fig. 15.
O'Harra, C. C. 1920 A, 156.
Weber and Abel 1928 A, 678, fig. 465 (P. atavus).
Lower Miocene (Harrison); Nebraska.

Parahippus penultimus (Matthew).

Matthew, W. D. 1924 C, 66, 158, 159 (Archæohippus).
Abel, O. 1926 B, 436 (Archæohippus).
Middle Miocene (Sheep Creek); Nebraska.

Parahippus pristinus Osborn.

Osborn, H. F. 1918 A, 13, 74, 75, 76, pl. vi, fig. 5; pl. ix, fig. 7; pl. xxv, fig. 1; pl. xxxvi, fig. 1; text-fig. 52.
Abel, O. 1928 B, 40, 41, 42, fig. 18.
Loomis, F. B. 1926 A, 123, fig. 23.
Matthew, W. D. 1924 C, 155.
1926 C, 157, fig. 15.
O'Harra, C. C. 1920 A, 156.
Lower Miocene (Rosebud); South Dakota.

Parahippus taxus (Douglass).

Douglass, E. 1908 B, 271, pl. lxvii, figs. 3, 4; pl. lxviii, figs. 6-8 (Altippus).
Abel, O. 1928 B, 42.
Osborn, H. F. 1918 A, 15, 75, 85, text-fig. 62.
Richards and Pardee 1925 A, 15 (Altippus).
Upper Oligocene or Lower Miocene (Divide Creek); Montana.

Parahippus texanus Leidy.

Hay, O. P. 1902 A, 615 (Anchippus).
Abel, O. 1928 B, 39, fig. 19.
Gidley, J. W. 1907 A, 872, 885.
Loomis, F. B. 1926 A, 123.
Marsh, O. C. 1874 E, 291 (Anchippus).
Matthew, W. D. 1901 B, 357, 358, 373 (Anchippus).
Osborn, H. F. 1918 A, 6, 13, 74, 75, 84, pl. viii, fig. 3; pl. ix, fig. 10; text-fig. 59.
Palacký, J. 1903 B, 312 (Anchippus).
Peterson, O. A. 1906 C, 57.
Sellards, E. H. 1916 B, 85.
Trouessart, E. L. 1905 A, 617 (Anchippus).
Middle Miocene?; Texas.

Parahippus tyleri Loomis.

Loomis, F. B. 1908 B, 163, fig. 1.
Abel, O. 1928 B, 42.
Cook, H. J. 1912 D, 42 (P. nebrascensis tyleri).
Loomis, F. B. 1926 A, 117, 123.
O'Harra, C. C. 1920 A, 157.

Osborn, H. F. 1918 A, 13, 74, 75, 77, pl. ix, figs. 6, 8; pl. xxxix, figs. 10, 12; text-figs. 53, 54, 56.
Sellards, E. H. 1916 B, 86.
Lower Miocene (Harrison); Nebraska.

Parahippus ultimus (Cope).

Hay, O. P. 1902 A, 614 (Miohippus).
Dall and Harris 1892 A, 282 (Anchitherium).
Gidley, J. W. 1906 D, 385, fig. 1 (Archæohippus).
1907 A, 874, 903 (Archæohippus).
Gregory, W. K. 1920 B, 270, pl. xviii (Archæohippus).
Loomis, F. B. 1926 A, 120 (Archæohippus).
Matthew, W. D. 1909 C, 115 (Archæohippus).
1924 C, 159 (Archæohippus).
Merriam, J. C. 1913 G, 429, fig. 4 (Archæohippus).
Merriam and Sinclair 1907 A, 195, 196 (Archæohippus).
Osborn, H. F. 1904 B, 168 (Miohippus).
1918 A, 16, 22, 204, 211, pl. vi, fig. 2; text-fig. 172 (Archæohippus).
Sellards, E. H. 1916 B, 86 (Archæohippus).
Middle Miocene (Mascall); Oregon.

Parahippus sp. indet.

Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Gidley, J. W. 1906 D, 387 (Archæohippus).
Gidley, J. W. 1908 B, 240, figs. 6, 7 (This genus?). Miocene (Virgin Valley); Nevada.
Hay, O. P. 1916 A, 387. Late Tertiary; South Carolina.
1916 C, 42, pl. viii, figs. 1, 2. Pleistocene?; Florida.
1923 A, 493. Pleistocene?; Florida.
Loomis, F. B. 1923 A, 222. Miocene (Lower Harrison); Nebraska.
Matthew, W. D. 1901 B, 358 (Anchitherium); 359 (Parahippus).
1909 C, 113 (Parahippus). Lower Miocene (Lower Rosebud); South Dakota; 113 (Anchitherium); 115 (Archæohippus). Miocene (Middle); Oregon.
1918 A, 186 (Archæohippus?). Pliocene (Snake Creek); Nebraska.
1924 C, 72. Miocene (Pawnee Creek); Colorado.
Merriam, J. C. 1917 A, 439. Upper Pliocene (Dunnellon); Florida; 436. Pliocene (Snake Creek); Nebraska.
Merriam and Sinclair 1907 A, 196 (Archæohippus). Miocene (Mascall); Oregon.
Peterson, O. A. 1906 C, 35, 46. Lower Miocene (Harrison and Agate Spring); Nebraska.
Sinclair, W. J. 1915 A, 76, 86 (Archæohippus). Pliocene (Snake Creek); Nebraska.
Stock, C. 1924 B, 54 (This genus?). Upper Miocene (Mint Canyon); California.

MERYCHIPPUS Leidy. Type *M. insignis* Leidy.

Hay, O. P. 1902 A, 616.
Abel, O. 1909 E, (247).
1912 F, 629.
1913 B, 754, fig. 105. (Meryhippus).
1914 A, 247.
1926 B, 360, 396, 415, 423, 429, 451.
1926 H, (160).
1928 B, 21, 34, 44, figs. 3, 4, 14, 21.
Ameghino, F. 1904 A, 533.
Antonius, O. 1919 A, 285, 291.
Arldt, T. 1907 D, 257.
Boas, J. E. V. 1914 B, 597.
Case, E. C. 1899 B, 165.
Depéret, C. 1912 A, 710.
Douglass, E. 1909 A, 477.
Floderus, M. 1910 A, 98, fig. 1.
Flower, W. H. 1873 B, 101.
1892 A, 72.
Frick, C. 1926 A, 20.
Fürbringer, M. 1902 A, 203 (Protohippus).
Furlong, E. L. 1927 A, 159.
Gidley, J. W. 1904 B, 191, 194.
1906 D, 388.
1907 A, 868.
Gregory, W. K. 1920 B, 266, pl. xviii.
Haug, E. 1911 A, 1705, 1706.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1910 C, 293.
1926 A, 60, 64, 121, figs. 7-9, 11, 12, 24.
Lull, R. S. 1904 C, 6.
1907 A, 177.
1917 B, 225, 611, figs. 220, 221.
Lydekker, R. 1907 A, 5, figs. 1*d*, 2*c*.
1912 A, 254.
1912 B, 221.
Major, C. J. F. 1877 A.
Matthew, W. D. 1903 A, 19 (Parahippus, Merychippus).
1907 A, 175.
1909 C, 119.
1913 F, 20, 25, figs. 2, 3, 11, 16, 21.
1914 G, 234.
1915 A, 196, 236, 313.
1915 K, 413, 456.
1916 J, 7, 11, figs. 2, 3.
1917 A, 574.
1918 A, 211, 212.
1920 C, 475.
1924 B, 630.
1924 C, 69, 153, 159, 164.
1924 D, 1.
1924 G, 630.
1926 B, 5.
1926 C, 141, 158, 160, 167, figs. 1-6, 8, 27.
1928 B, 979, fig. 15.
Matthew and Cook 1909 A, 386.
Merriam, J. C. 1907 A, 381.
1911 B, 208, 215, 217, 221.
1914 C, 644.
1915 A, 7.
1915 E, 193, 212.
1915 F, 255, 259.
1915 G, 99, 100.
1916 D, 132.
1917 A.
1919 A, 450-455, 472, 479, 528.
Osborn, H. F. 1902 D, 267, fig. 1.
1907 G, 75, figs. 135, 162, 215.
1909 D, 78-80.
1910 B.

Osborn, H. F. 1912 G, 248.
1915 B, 220.
1918 A, 4, 5, 17, 24, 27, 29, 98.
Palmer, T. S. 1904 A, 411, 937.
Pavlow, M. 1915 A, 35.
1925 A, 316, seq.
Schlosser, M. 1924 A, 67.
Schuchert and Levene 1927 A, 347, fig.
Scott, W. B. 1913 A, 297.
Sefve, I. 1927 A, 80.
Sellards, E. H. 1916 B, 91.
Steinmann, G. 1907 A, 491.
Taylor, W. P. 1917 A, 272.
Terra, P. 1911 A, 312, fig. 129.
Thorpe, M. R. 1927 A, 168.
Trouessart, E. L. 1905 A, 637.
Troxell, E. L. 1916 A, 339.
Veith, A. 1912 A, 6, 13.
Wallace, A. R. 1876 A, I, 135.
Weber, M. 1904 A, 621.
Weber and Abel 1928 A, xxii, 417, 679, figs. 260, 467.
Zittel and Schlosser 1911 A, 461.
1923 A, 547, 550, 673, 679, fig. 683.

Merychippus calamarius (Cope).

Hay, O. P. 1902 A, 619 (Hipparion).
Abel, O. 1926 B, 423, fig. 269.
1928 B, 43, fig. 20.
Ameghino, F. 1904 A, 260, 261, fig. 352 (Hipparion).
Barbour and Cook 1917 B, 180.
Gidley, J. W. 1907 A, 873, 896.
Matthew, W. D. 1909 C, 117 (Neohipparion).
1918 A, 186, 211.
1924 C, 159.
Merriam, J. C. 1911 E, 168, pl. xxix, figs. 2-3 (This species?).
1915 A, 7.
1915 D, 50.
1915 E, 199, 233.
1917 A, 436 (This species?).
1919 A, 480, 494, 505, 527, fig. 60.
Merriam and Pack 1913 A, 128 (This species?).
Merrill, G. P. 1907 A, 39 (Hippotherium).
Osborn, H. F. 1918 A, 5, 6, 22, 28, 99, 123, pl. xi, fig. 4; pl. xvii, fig. 8; pl. xviii, figs. 2, 6; text-fig. 98.
Pavlow, M. W. 1925 A, 324 (Hippotherium).
Sinclair, W. J. 1915 A, 76 (This species?).
Trouessart, E. L. 1905 A, 640 [Neohipparion (Stylonus)].
Lower Pliocene (Santa Fe); New Mexico: (Snake Creek, Valentine); Nebraska: (Barstow); California.

Merychippus calamarius? propinquus Osborn.

Osborn, H. F. 1918 A, 28.
Pliocene (Snake Creek); Nebraska.

Merychippus calamarius stylodontus Merriam, J. C.

Merriam, J. C. 1919 A, 450, 453, 482, 505, 527, figs. 43-47, 50-53, 61, 63.
Miocene (Barstow); California.

Merychippus californicus Merriam.

Merriam, J. C. 1915 A, 194, 197, figs. 3-14.
Clark, B. L. 1921 A, table (M. coalingensis).
Osborn, H. F. 1918 A, 22, 23, 99, 121, text-fig. 96.
Miocene (Temblor); California.

Merychippus campestris Gidley.

Gidley, J. W. 1907 A, 876, 928.
Antonius, O. 1919 A, 291.
Matthew, W. D. 1909 C, 115.
1924 C, 67.
Moodie, R. L. 1917 B, 384, fig. 8.
1918 C, 279.
1918 D, 507, fig. 41.
1923 B, 223, 249, pl. xliv.
Osborn, H. F. 1918 A, 19, 20, 99, 114, pl. xv, figs. 4, 5; pl. xix, figs. 3, 4; pl. xxvi, fig. 1; pl. xliv, fig. 1; pl. xlix, fig. 1; pl. l, figs. 3, 7; text-figs. 88, 89.
Pavlow, M. W. 1925 A, 322, 328.
Upper Miocene (Pawnee Creek); Colorado: (Lower Snake Creek); Nebraska.

Merychippus eohipparion Osborn.

Osborn, H. F. 1918 A, 19, 20, 99, 117, pl. xx, fig. 2; pl. xliv, fig. 3; pl. xlix, fig. 3; pl. L, figs. 4, 8; pl. liv, fig. 3; text-fig. 92.
Abel, O. 1928 B, 35, fig. 15.
Matthew, W. D. 1924 C, 67, 72, 159.
1926 C, 159, fig. 17.
Schlosser, M. 1924 A, 67.
Weber and Abel 1928 A, 678, fig. 465.
Upper Miocene (Pawnee Creek); Colorado: (Lower Snake Creek); Nebraska.

Merychippus eoplacidus Osborn.

Osborn, H. F. 1918 A, 19, 20, 99, 114, pl. xx, fig. 1; pl. xxxix, fig. 6; pl. xliv, fig. 2; pl. xlviii, fig. 1; pl. xlix, fig. 2; pl. liv, fig. 2; text-fig. 90.
Abel, O. 1926 B, 401, fig. 255.
Upper Miocene (Pawnee Creek); Colorado: (Lower Snake Creek); Nebraska.

Merychippus francisi Hay.

Hay, O. P. 1924 A, 9, pl. i, figs. 28, 29; pl. ii, figs. 1-4.
Upper Miocene (Fleming); Texas.

Merychippus insignis Leidy.

Hay, O. P. 1902 A, 616.
Barbour and Cook 1917 B, 180.
Dall and Harris 1892 A, 292.
Deussen, A. 1924 A, 21, 97, 99 (Protohippus medius).
Deussen and Dole 1916 A, 149 (Protohippus medius).
Douglass, E. 1908 B, 275, pl. lxvii, figs. 1, 2; pl. lxviii, figs. 3-5.
Dumble, E. T. 1894 A, 558 (Protohippus medius).
1903 A, 957 (Protohippus medius).
1915 A, 473 (Protohippus medius).
1920 A, 238 (Protohippus medius).
Gidley, J. W. 1907 A, 872, 878.
1908 B, 239.
Leidy, J. 1880 B, 258 (This species?).
Lull, R. S. 1907 A, 179, fig. 12.

Matthew, W. D. 1909 C, 117.
1918 A, 186, 212.
1920 E, 238 (Protohippus medius).
Matthew and Cook 1909 A, 386, fig. 11.
Merriam, J. C. 1917 A, 436 (This species?).
Merriam and Sinclair 1907 A, 195 (Protohippus medius).
Merrill, G. P. 1907 A, 46.
Osborn, H. F. 1918 A, 23, 28, 99, 122, pl. xvii, fig. 5; pl. xxv, fig. 3; text-fig. 97.
Pavlow, M. W. 1925 A, 316, 321, seq., fig. 3.
Sellards, E. H. 1916 B, 86.
Sinclair, W. J. 1915 A, 76 (This species?).
Trouessart, E. L. 1905 A, 637.
Veith, A. 1912 A, 13.
Yates, L. G. 1903 A, 91 (Protohippus).
Upper Miocene or Lower Pliocene (Bijou Hills); South Dakota: Miocene (Oakville); Texas: (Mascall); Oregon: Pliocene (Snake Creek?, Valentine); Nebraska, California, Montana.

Merychippus insignis primus (Osborn).

Osborn, H. F. 1918 A, 5, 6, 16, 17, 99, 102, pl. xiii, fig. 3; pl. xiv, figs. 2, 4; pl. xxv, fig. 4; pl. xxxix, fig. 2; text-fig. 78 (M. isonesus primus).
Abel, O. 1926 A, 243 (M. primus).
1926 B, 362 (M. isonesus primus); 362-364, 401, 414, 451, figs. 255-257, 266-269 (M. primus).
1926 H, (164) (M. primus).
1928 B, 32, 35, 50, 74, figs. 12, 15, 19, 22, 27, 44 (M. primus).
Hay, O. P. 1924 A, 9 (M. isonesus primus).
Matthew, W. D. 1923 E, 131 (M. primus).
1924 C, 67 (M. primus); 162, figs. 49, 55 (M. insignis primus).
Middle Miocene (Sheep Creek); Nebraska.

Merychippus intermontanus Merriam.

Merriam, J. C. 1915 D, 50, figs. 2, 3.
1919 A, 450, 480, 505, 527, figs. 36-40, 48, 49, 54-56.
Osborn, H. F. 1918 A, 20, 22, 99, 121, text-fig. 95.
Upper Miocene (Barstow); California.

Merychippus isonesus (Cope).

Hay, O. P. 1902 A, 620 (Hipparion).
Abel, O. 1926 B, 362.
1928 B, 76, fig. 44.
Ameghino, F. 1904 A, 258, fig. 350 (Hipparion).
Antonius, O. 1919 A, 291.
Clark, B. L. 1921 A, table.
Condon, T. 1902 A, 123, pl. xxv ("Hipparion").
1910 A, 112, pl. xxv ("Hipparion").
Cook, H. J. 1912 D, 43 (This species?).
Cope and Matthew 1915 A, pl. cxlvii; pl. cxlviii, figs. 1-8 (Hippotherium seversum; Merychippus isonesus); pl. cxlviiia, fig. 8; pl. cxlix, figs. 1-4 (Protohippus sejunctus, Merychippus isonesus).
Douglass, E. 1903 A, 154 (Hippotherium).
1907 A, 810 (Neohipparion. This species?).
Gidley, J. W. 1907 A, 874, 909.
1908 B, 238.
Lull, R. S. 1907 A, 179 (Neohipparion).
Matthew, W. D. 1901 B, 374 (Hipparion).
1909 C, 115.
Matthew, W. D. 1924 C, 162.
Maxson, J. H. 1928 A, 23.
1928 B, 57, fig. 1.
Merriam, J. C. 1911 B, 205, 209, 214, 262, figs. 30, 34 (This species?).
1914 C, 644.
1915 E, 198, 233.
1919 A, 492, figs. 58, 59.
Merriam and Sinclair 1907 A, 195, 196.
Moodie, R. L. 1922 C, 367.
Osborn, H. F. 1918 A, 16, 17, 99, 101, pl. vi, fig. 8; pl. x, fig. 4; pl. xiii, figs. 1, 2; pl. xvii, figs. 3, 4; pl. xlii, figs. 1, 2; text-figs. 75, 77.
Pavlow, M. W. 1925 A, 322.
Schlosser, M. 1924 A, 67.
Turner, H. W. 1895 A, 373 (Hippotherium isosensum).
Trouessart, E. L. 1905 A, 640 [Neohipparion (Stylonus)].
Middle Miocene (Mascall); Oregon: (Virgin Valley); California.

Merychippus isonesus quartus Osborn.

Osborn, H. F. 1918 A, 17, 99, 107, pl. xli, fig. 3; pl. xlv, fig. 4; pl. xlvi, fig. 3; pl. lii, fig. 3.
Abel, O. 1928 B, 46 (M. quartus).
Middle Miocene (Sheep Creek); Nebraska.

Merychippus isonesus quintus Osborn.

Osborn, H. F. 1918 A, 16, 17, 99, 107, pl. xiii, fig. 7; pl. xiv, fig. 1; pl. xli, fig. 4; pl. xlv, figs. 2, 5; pl. xlvi, fig. 4; text-fig. 81.
Abel, O. 1928 B, 46 (M. quintus).
Middle Miocene (Sheep Creek); Nebraska.

Merychippus isonesus secundus Osborn.

Osborn, H. F. 1918 A, 5, 17, 99, 105, pl. xiii, fig. 4; pl. xli, fig. 1; pl. xlv, figs. 1, 3; pl. xlvi, fig. 1; pl. lii, fig. 1; text-fig. 79.
Abel, O. 1928 B, 46 (M. secundus).
Middle Miocene (Sheep Creek); Nebraska.

Merychippus isonesus tertius Osborn.

Osborn, H. F. 1918 A, 6, 17, 99, 105, pl. xiii, figs. 5, 6; pl. xiv, fig. 3; pl. xli, fig. 2; pl. xlvi, fig. 2; pl. lii, fig. 2; text-fig. 80.
Abel, O. 1928 B, 41, figs. 19, 45 (M. tertius).
Middle Miocene (Sheep Creek); Nebraska.

Merychippus labrosus (Cope).

Hay, O. P. 1902 A, 617.
Cope and Matthew 1915 A, pl. cxlviiia, figs. 5-7 (Protohippus insignis; Merychippus lab.).
Gidley, J. W. 1907 A, 873, 891.
Matthew, W. D. 1909 C, 115.
Osborn, H. F. 1918 A, 19, 20, 99, 109, text-fig. 84.
Trouessart, E. L. 1905 A, 638.
Middle Miocene (Pawnee Creek); Colorado.

Merychippus missouriensis Douglass.

Douglass, E. 1908 B, 274, pl. lxvi; pl. lxvii, fig. 5; pl. lxviii, figs. 1, 2 (This genus?).
Osborn, H. F. 1918 A, 99, 119, text-fig. 93.
Miocene (Loup Fork); Montana.

Merychippus paniensis (Cope).

Hay, O. P. 1902 A, 620 (Hipparion).
Abel, O. 1926 B, 362, 364, 419, figs. 256, 257, 269.

Abel, O. 1928 B, 32, 43, 76, figs. 12, 20, 23, 44, 45.
Cook, H. J. 1912 D, 43 (This species?).
Gidley, J. W. 1907 A, 873, 890.
Matthew, W. D. 1909 C, 115.
1923 E, 131.
1924 C, 66, 72, 159, figs. 47, 48.
1926 C, 158, fig. 16.
Osborn, H. F. 1918 A, 5, 6, 19, 20, 99, 109, pl. xi, fig. 2; pl. xvi, figs. 4-6; pl. xviii, figs. 1, 5; pl. xxv, fig. 5; pl. xxxiv, figs. 1, 2; pl. xliii, fig. 2; pl. xlviii, fig. 2; pl. l, figs. 2, 6; pl. liii, fig. 2; text-fig. 83.
Middle Miocene (Pawnee Creek); Colorado: Upper Miocene (Snake Creek); Nebraska.

Merychippus patruus Osborn.

Osborn, H. F. 1918 in Matthew, W. D. 1918 A, 213.
Abel, O. 1926 B, 402, figs. 256, 269.
Osborn, H. F. 1918 A, 28, 99, 126, pl. xvii, fig. 6; text-fig. 100.
Pliocene (Snake Creek); Nebraska.

Merychippus patruus obliquus Matthew.

Matthew, W. D. 1918 A, 212.
Osborn, H. F. 1918 A, 28 (M. insignis? obliquus).
Pliocene (Snake Creek); Nebraska.

Merychippus proparvulus Osborn.

Osborn, H. F. 1918 A, 19, 20, 99, 117, pl. xi, fig. 3; pl. xv, figs. 6, 7; pl. xx, fig. 3; pl. liv, fig. 1; text-fig. 91.
Abel, O. 1926 B, 420.
Matthew, W. D. 1924 C, 67, 72, 159.
Upper Miocene (Pawnee Creek); Colorado: (Lower Snake Creek); Nebraska.

Merychippus relictus (Cope).

Hay, O. P. 1902 A, 620 (Hipparion).
Dall and Harris 1892 A, 283 (Hippotherium).
Gidley, J. W. 1907 A, 874, 906.
Hay, O. P. 1927 D, 101 (Hippotherium).
Matthew, W. D. 1909 C, 117 (Neohipparion).
Merriam and Sinclair 1907 A, 196.
Osborn, H. F. 1918 A, 16, 99, 100, pl. xiii, fig. 9; pl. xvii, fig. 2; text-fig. 73.
Trouessart, E. L. 1905 A, 640 [Neohipparion (Stylonus)].
Lower or Middle Miocene; Oregon.

Merychippus republicanus Osborn.

Osborn, H. F. 1918 A, 5, 6, 28, 99, pl. x, fig. 1; pl. xvii, fig. 7; text-fig. 99.
Abel, O. 1928 B, 43, fig. 20.
Matthew, W. D. 1924 C, 162.
Schlosser, M. 1924 A, 67.
Lower Pliocene (Republican River); Nebraska.

Merychippus sejunctus (Cope).

Hay, O. P. 1902 A, 618.
Abel, O. 1926 B, 421.
1928 B, 51, fig. 28.
Boule and Thevenin 1920 A, 117.
Cook, H. J. 1912 D, 43 (This species?).
Cope, E. D. 1885 FF, 793, fig. 3 (Protohippus).
Cope and Matthew 1915 A, pl. cxlviiia, fig. 3 (Protohippus perditus, Merychippus sejunctus); pl. cl (Protohippus, Merychippus); pl. cli (Merychippus).
Dall and Harris 1892 A, 288 (Protohippus).
Gidley, J. W. 1907 A, 873, 891.
1927 D, 267, fig.
Gregory, W. K. 1920 B, pl. xviii.
Loomis, F. B. 1926 A, 125, fig. 25.
Matthew, W. D. 1901 B, 358, 374 (Protohippus).
1909 C, 115.
1924 C, 67, 72, 159.
Merriam, J. C. 1919 A, 498 (Protohippus).
Osborn, H. F. 1904 F, 13, 14.
1918 A, 19, 20, 99, 110, pl. xi, fig. 1; pl. xvi, figs. 1-3; pl. xix, figs. 1, 2, 20; pl. xliii, fig. 3; pl. xlviii, fig. 1; pl. l, figs. 1, 5; pl. liii, fig. 3; text-figs. 85, 86.
Sefve, I. 1927 A, 81.
Trouessart, E. L. 1905 A, 638.
Middle Miocene (Pawnee Creek); Colorado: Upper Miocene (Snake Creek); Nebraska.

Merychippus seversus (Cope).

Hay, O. P. 1902 A, 621 (Hipparion).
Cook, H. J. 1912 D, 43 (M. severus. This species?).
Dall and Harris 1892 A, 282 (Hippotherium).
Dumble, E. T. 1920 A, 232 (This species?).
Gidley, J. W. 1907 A, 872, 897.
Matthew, W. D. 1909 C, 115.
1915 L, 471, 472 (This species?).
1920 E, 232 (This species?).
1924 C, 159.
Merriam, J. C. 1911 B, 209, 264 (This species?).
1915 E, 199.
Osborn, H. F. 1918 A, 16, 99, 101, pl. xiii, fig. 8; pl. xvii, fig. 1; text-fig. 74.
Trouessart, E. L. 1905 A, 640 [Neohipparion (Stylonus)].
Middle Miocene (Mascall); Oregon: Miocene (Snake Creek?); Nebraska: (Virgin Valley); Nevada: Upper Miocene (Fleming); Texas?

Merychippus socius Hay.

Hay, O. P. 1924 A, 9, pl. i, figs. 25-27.
Upper Miocene (Fleming); Texas.

Merychippus sphenodus Cope.

Hay, O. P. 1902 A, 621 (Hipparion).
Abel, O. 1928 B, 43, fig. 20 (This genus?).
Cope and Matthew 1915 A, pl. cxlviii, figs. 9, 10; pl. cxlviiia, fig. 1 (Hippotherium, Merychippus).
Gidley, J. W. 1907 A, 874, 908.
Matthew, W. D. 1909 C, 115.
Osborn, H. F. 1918 A, 6, 19, 20, 99, 112, pl. x, figs. 2, 12; pl. xv, figs. 1-3; pl. xviii, fig. 4; pl. xliii, fig. 1; pl. xlvii, fig. 2; pl. xlviii, fig. 3; pl. liii; text-fig. 87.
Trouessart, E. L. 1905 A, 640 (Neohipparion).
Middle Miocene (Pawnee Creek); Colorado.

Merychippus sumani Merriam.

Merriam, J. C. 1915 D, 49, fig. 1.
1911 E, 168, pl. xxix, figs. 1a-1c (M. "near calamarius").
1915 E, 199 (M. calamarius sumani).
1919 A, 450, 480, figs. 41, 42, 57.

Osborn, H. F. 1918 A, 20, 22, 99, 120, text-fig. 94.
Upper Miocene (Barstow); California.

Merychippus vellicans Hay.

Hay, O. P. 1924 9, 7, pl. i, figs. 18-24.
Upper Miocene (Fleming); Texas.

Merychippus sp. indet.

Hay, O. P. 1902 A, 618.
Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Buwalda, J. P. 1916 A, 77, 80. Miocene (Tehachapi); California.
1916 B, 170. Miocene (Tehachapi); California.
Clark, B. L. 1921 A, table. Miocene (Monterey); California.
Cook, H. J. 1912 D, 44. Pliocene (Snake Creek); Nebraska.
Deussen, A. 1924 A, 97. Miocene (Oakville); Texas.
Dumble, E. T. 1920 A, 231, 237. Neocene (Fleming); Texas.
Frick, C. 1926 A, 106. Miocene (Pawnee Creek); Colorado.
Gidley, J. W. 1908 B, 238, 239, figs. 2, 3 (3 species); Virgin Valley, Nevada.
1915 D, 21 ("Merychippus"). Florida.
1918 C, 180. Later Tertiary (Flaxville); Montana.
Hay, O. P. 1924 D, 169, 312. Pliocene?; Montana.
Louderback, G. D. 1924 A, 9. Miocene (Cedar Mountain); California.
Matthew, W. D. 1915 L, 471. Miocene (Fleming); Texas.
1920 E, 231, 237. Upper Miocene (Fleming); Texas.
Merriam, J. C. 1911 B, 263, fig. 33. Miocene; Nevada.
1911 E, 168, pl. xxix, fig. 4. Miocene (Upper); California.
1913 E, 375, fig. 2 (Neohipparion or Merychippus).
1914 A, 279, figs. 1, 2. Miocene; Nevada.
1914 C, 644. Tertiary (Temblor); California.
1915 B, 286, figs. 1, 2. Miocene?; California.
1916 A, 186, figs. 21, 22, 26, 27. Miocene (Cedar Mountain); California.
1916 C, 123, figs. 11-13 (Merychippus or Neohipparion); 125, fig. 15 (This genus?).
1916 E, 170. Miocene (Tehachapi); California.
1916 G, 88. Miocene (Alum Bluff); Florida.
1919 A, 497, figs. 62, 64-79. Miocene (Barstow); California.
Merriam, Stock, Moody 1925 A, 57. Pliocene (Mascall); Oregon.
Merrill, G. P. 1907 A, 47. Middle Miocene; New Mexico.
Osborn, H. F. 1918 A, 108, fig. 82. Miocene (Alum Bluff); Florida.
Sellards, E. H. 1916 B, 87, pl. ii, fig. 1. Miocene (Alum Bluff); Florida.
Stock, C. 1921 A, 260, fig. 10 (This genus?). Pliocene? (Muddy Valley); Nevada.
1924 B, 54 (Protohippus?). Upper Miocene (Mint Canyon); California.

HIPPODON Leidy. Type *H. speciosus* Leidy.

Leidy, J. 1854 C, 90.
Hay, O. P. 1902 A, 619 (Hipparion, in part).
Matthew, W. D. 1913 E, 791.
Osborn, H. F. 1918 A, 128.

Hippodon speciosus Leidy.

Hay, O. P. 1902 A, 621 (Hipparion).
Cope and Matthew 1915 A, pl. cxlv (Hippotherium, Merychippus).
Dall and Harris 1892 A, 292 (Hipparion).
Gidley, J. W. 1907 A, 872, 877 (Hippodon); 879 (Hipparion).
Hay, O. P. 1914 A, 148, pl. viii, fig. 3 (Neohipparion).
Marsh, O. C. 1874 E, 291 (Hipparion).
Matthew, W. D. 1909 C, 117 (Neohipparion).
1913 E, 791.
1924 C, 71.
Merriam, J. C. 1914 D, 13 (Hipparion).
Merrill, G. P. 1907 A, 38 (Hipparion); 41 (Hippotherium).
Osborn, H. F. 1918 A, 128, 129, text-fig. 101 ("nomen nudum").
Pavlow, M. 1925 A, 323, 324 (Hippotherium).
Turner, H. W. 1895 A, 373 (Hippotherium).
Miocene? (Arikaree?); South Dakota.

PROTOHIPPUS Leidy. Type *P. perditus* Leidy.

Hay, O. P. 1902 A, 616 (Syn. of Merychippus).
Abel, O. 1909 E, (247).
1912 F, 629.
1914 A, 247.
1914 B, 596, fig. 43.
1926 B, 362, 456.
1926 H, (160).
1928 B, 28, 44, 72, fig. 10.
Ameghino, F. 1904 A, 536.
Antonius, O. 1913 A, 245.
1919 A, 287.
Arldt, T. 1907 D, 257.
Arldt, T. 1909 C, 458.
Beasley, W. D. 1903 A, 451.
Berry, E. W. 1922 A, 111.
Berthoud, E. L. 1879 A, 154.
Boas, J. E. V. 1914 B, 497.
Boule and Thevenin 1920 A, 117.
Case, E. C. 1899 B, 165.
Condon, T. 1902 A, 136.
1910 A, 113.
Cope, E. D. 1880 U, 157.
Cummins, W. F. 1893 A, 203.
Depéret, C. 1912 A, 710.

Douglass, E. 1909 A, 477.
Fairchild, H. L. 1894 A, 209.
Fejérváry, G. J. de 1921 B, 183.
Floderus, M. 1910 A, 99, fig. 1.
Freudenberg, W. 1922 A, 10.
Gaudry, A. 1896 A, 187.
Gidley, J. W. 1904 B, 192, 194.
1906 C, 137.
1907 A, 868.
Giebel, C. G. 1883 A, 145.
Haug, E. 1911 A, 1705, 1706.
Hescheler, K. 1906 A, 31.
Huxley, T. H. 1876 F, 185.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1910 C, 293.
1926 A, 121, fig. 24.
Lull, R. S. 1907 A, 178.
1913 A, 12.
Lydekker, R. S. 1904 A, 18.
1907 A, 5, fig. 2c.
1912 A, 247.
Major, C. J. F. 1877 A, 12.
Marsh, O. C. 1874 E, 290.
Matthew, W. D. 1903 A, 20.
1909 C, 119.
1910 G, 155.
1913 F, 20, 25, fig. 16.
1915 A, 236, 314.
1915 K, 456.
1916 J, 9, 11.
1924 E, 748.
1926 C, 160, 167.
Matthew and Cook 1909 A, 389.
Merriam, J. C. 1911 B, 217.
1915 F, 255.
1916 D, 132.
1917 A, 437, 443.
1919 A, 455, 472.
O'Harra, C. C. 1910 A, 96, 133.
Osborn, H. F. 1901 F, 499.
1902 H, 715.
1904 O, 157.
1905 H, 206.
1905 I, 92.
1905 K, 608.
1905 L, 564.
1909 D, 65, 134.
1910 B, 629.
1912 G, 248.
1918 A, 4, 20, 22, 27, 28, 29, 127, 146.
Palacký, J. 1903 B, 310.
Palmer, T. S. 1904 A, 582, 938.
Pavlow, M. 1903 A, 173.
1907 A, 143.
1915 A, 35.
1925 A, 314, seq.
Sauvage, H. E. 1882 A, 107 ("protohippe").
Schmidt, O. 1886 A, 213, fig. 38.
Scott, W. B. 1913 A, 305, 306, figs. 154, 156.
1917 A, 102, 105.
Schuchert, C. 1910 A, 599.
Shufeldt, R. W. 1889 D, 11.
Thorpe, M. R. 1927 A, 168.
Trouessart, E. L. 1892 A, 188.
1905 A, 637 (Merychippus, in part); 639 (Pseudohipparion; type *Hippotherium retrusum* Cope).
Troxell, E. L. 1916 A, 338.
Underhill, B. M. 1907 A, 117, 120, fig. 1.
Veith, A. 1912 A, 6.
Wallace, A. R. 1876 A, I, 135.
Weber, M. 1904 A, 600, 621.
Winge, H. 1906 A, 150 (Prothippus).
Woodward, A. S. 1898 B, 337.
Wright, R. R. 1883 A, 251.
Zittel and Schlosser 1911 A, 461.
1923 A, 547, 550, 673, 679, 680, fig. 684.

Protohippus castilli Cope.

Hay, O. P. 1902 A, 616 (Merychippus).
Felix and Lenk 1891 A, 126 (P. castilloi).
Freudenberg, W. 1921 A, 131 (P. castilloi).
1922 A, 4 (P. castelli).
Gidley, J. W. 1907 A, 874 (Protohippus); 901 (Merychippus).
Matthew, W. D. 1909 C, 117.
Osborn, H. F. 1905 E, 931 (P. castillei).
1918 A, 127, 128, 141, text-fig. 113.
Lower Pliocene?; Mexico.

Protohippus niobrarensis (Gidley).

Gidley, J. W. 1906 C, 151, figs. 18-20 (Neohipparion?).
1907 A, 876, 927 (Neohipparion).
1918 C, 180 (This species?).
Gregory, W. K. 1920 B, 269, pl. xviii.
Matthew, W. D. 1909 C, 117 (Neohipparion).
Osborn, H. F. 1918 A, 25, 26, 128, 136, pl. xxi, fig. 2; text-fig. 108.
Pavlow, M. 1925 A, 324 (Neohipparion).
Upper Miocene or Lower Pliocene (Niobrara River); Nebraska, Montana?.

Protohippus pachyops Cope.

Hay, O. P. 1902 A, 617 (Merychippus).
Ameghino, F. 1904 A, 264, fig. 359 (Anchippus); 264 (Protohippus).
Dumble, E. T. 1894 A, 556.
Gidley, J. W. 1907 A, 875, 912 (=? Hypohippus).
Matthew, W. D. 1909 C, 117.
Montgomery, T. H. 1904 A, 57.
Osborn, H. F. 1918 A, 26, 127, 128, 138, pl. xxiii, figs. 1, 2; pl. xxiv, fig. 2; text-fig. 110.
Trouessart, E. L. 1905 A, 618, 638 (Anchippus).
Upper Miocene or Lower Pliocene (Clarendon); Texas.

Protohippus parvulus (Marsh).

Hay, O. P. 1902 A, 617 (Merychippus).
Abel, O. 1926 B, 403.
Gidley, J. W. 1903 C, 634.
1907 A, 872, 885 (Parahippus).
Lull, R. S. 1913 A, 1, 2.
1926 A, 455.
Marsh, O. C. 1874 E, 291.
Matthew, W. D. 1909 C, 117 (This genus?).
Osborn, H. F. 1918 A, 127, 128, 130, text-figs. 104, 105.
Trouessart, E. L. 1905 A, 638 (Merychippus).
Upper Miocene or Lower Pliocene; Nebraska.

Protohippus perditus Leidy.

Hay, O. P. 1902 A, 617 (Merychippus).
Abel, O. 1926 B, 423, fig. 269.
Barbour and Cook 1917 B, 180.

Cope and Matthew 1915 A, pl. cxlviii *a*, fig. 4; pl. cxlix, figs. 5, 6 (This species?).
Cummins, W. T. 1893 A, 203 (This species?).
Dall and Harris 1892 A, 316.
Deussen, A. 1924 A, 21, 97, 99.
Deussen and Dole 1916 A, 149.
Dumble, E. T. 1894 A, 558.
1903 A, 957.
1915 A, 473.
1920 A, 238.
Gidley, J. W. 1903 C, 634.
1904 A, 245 (This species?).
1906 C, 136, figs. 3-5.
1907 A, 872, 882.
Loomis, F. B. 1926 A, 129, fig. 26.
Major, C. J. F. 1877 A, 10.
Marsh, O. C. 1874 E, 291.
Matthew, W. D. 1901 B, 358.
1909 C, 117.
1918 A, 186, 213.
1920 E, 238.
1923 A, 12 (This species?).
1924 C, 67, 153, 175.
Merriam, J. C. 1917 A, 436 (This species?).
Merrill, G. P. 1907 A, 36 (Equus); 57 (Protohippus).
O'Harra, C. C. 1920 A, 158.
Osborn, H. F. 1918 A, 25, 28, 127, 129, pl. xxi, fig. 3; pl. xxv, fig. 8; text-figs. 102, 103, 116 *a*.
Sinclair, W. J. 1915 A, 77 (This species?).
Trouessart, E. L. 1905 A, 638 (Merychippus).
Lower Pliocene (Upper Snake Creek, Valentine); Nebraska, South Dakota: Miocene (Oakville); Texas.

Protohippus perditus secundus Osborn.

Osborn, H. F. 1918 A, 128, 144, pl. xxii, fig. 1; text-figs. 116, 116*a*.
Abel, O. 1928 B, 47, fig. 24 (P. secundus).
Loomis, F. B. 1926 A, 129, fig. 25 (P. secundus).
Upper Miocene or Lower Pliocene (Republican River); Nebraska.

Protohippus placidus Leidy.

Hay, O. P. 1902 A, 617 (Merychippus).
Barbour and Cook 1917 B, 180 (This species?).
Deussen, A. 1924 A, 21, 97, 99.
Deussen and Dole 1916 A, 149.
Dumble, E. T. 1894 A, 558.
1903 A, 957.
1915 A, 473.
1920 A, 238.
Gidley, J. W. 1903 C, 634.
1906 C, 140, figs. 6, 7.
1907 A, 869, 873, 887 (Merychippus).
Heilmann, G. 1916 A, 121, fig. 209.
Matthew, W. D. 1909 C, 117.
1918 A, 118, 213.
1920 E, 238.
1923 A, 12.
1924 C, 67, 153, 175.
Merriam, J. C. 1917 A, 436 (This species?).
Merrill, G. P. 1907 A, 57.
O'Harra, C. C. 1920 A, 158.
Osborn, H. F. 1918 A, 25, 127, 128, 133, pl. xxxiv, fig. 4; text-figs. 106, 107, 116*a*.
Sinclair, W. J. 1915 A, 77 (This species?).
Trouessart, E. L. 1905 A, 638 (Merychippus).
Troxell, E. L. 1916 A, 347.
Veith, A. 1912 A, 13.
Miocene (Oakville beds); Texas: Lower Pliocene (Upper Snake Creek and Valentine?); Nebraska.

Protohippus profectus Cope.

Hay, O. P. 1902 A, 617 (Syn. of Merychippus perditus).
Gidley, J. W. 1907 A, 874, 907.
Loomis, F. B. 1926 A, 129.
Matthew, W. D. 1909 C, 117.
Merriam, J. C. 1917 A, 438.
Osborn, H. F. 1918 A, 28, 127, 128, 143, pl. xxii, fig. 3; text-fig. 115.
Lower Pliocene (Republican River); Nebraska.

Protohippus proplacidus Osborn.

Osborn, H. F. 1918 A, 19, 27, 127, 128, 139, pl. xxv, fig. 7; pl. xxxiv, fig. 3; text-fig. 112.
Upper Miocene or Lower Pliocene (Pawnee Creek); Colorado.

Protohippus retrusus (Cope).

Hay, O. P. 1902 A, 620 (Hipparion).
Ameghino, F. 1904 A, 262 (Hipparion).
Gidley, J. W. 1907 A, 874, 906 (Hippotherium).
Matthew, W. D. 1909 C, 117 (Neohipparion).
Merriam, J. C. 1917 A, 438 (Neohipparion).
Osborn, H. F. 1918 A, 127, 128, 142, text-fig. 114.
Trouessart, E. L. 1905 A, 639 (Pseudohipparion).
Lower Pliocene (Republican River); Nebraska.

Protohippus simus Gidley.

Gidley, J. W. 1906 C, 139.
Frick, C. 1921 A, 333 (P. sinus).
Gidley, J. W. 1907 A, 876, 925.
Loomis, F. B. 1926 A, 129.
Matthew, W. D. 1909 C, 117.
O'Harra, C. C. 1920 A, 159.
Osborn, H. F. 1918 A, 25, 26, 127, 128, 136, pl. xxi, fig. 1; pl. xxii, fig. 2; text-fig. 109.
Upper Miocene or Lower Pliocene (Little White River); South Dakota.

Protohippus tehonensis Merriam.

Merriam, J. C. 1915 D, 52, fig. 4.
1916 C, 125, fig. 14.
1917 A, 426.
Nomland, J. O. 1917 B, 302.
Osborn, H. F. 1918 A, 25, 128, 138, text-fig. 111.
Upper Miocene or Lower Pliocene (Chanac); California.

Protohippus sp. indet.

Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Cook, H. J. 1912 D, 44. Pliocene (Snake Creek); Nebraska.
1922 B, 10, 17, 6 figs. Pliocene (Snake Creek); Colorado.
Cope, E. D. 1885 M, 494. Miocene; Mexico.
Dumble, E. T. 1920 A, 225 (May be Merychippus). Miocene (Fleming); Texas.

Gidley, J. W. 1903 C, 634. Miocene (Clarendon); Texas.
1904 C, 72. Pliocene; California.
1918 C, 180. Late Tertiary (Flaxville); Montana.
1926 A, 83. Upper Pliocene or Lower Pleistocene; Arizona.
Hay, O. P. 1923 A, 8. Lower Pleistocene? (Idaho); Idaho.
1924 D, 169, 312. Pliocene?; Montana.
1927 D, 311 (This genus?). Pleistocene?; California, Idaho.
Lindgren, W. 1900 A, 99. Pleistocene? (Idaho); Idaho.
Lucas, F. A. 1900 H, 99. Pliocene?; Idaho.
Matthew, W. D. 1901 B, 358, 359.
1920 E, 225 (May be Merychippus). Miocene (Fleming); Texas.
Merriam, J. C. 1916 C, 125, fig. 15 (This genus?).
1917 A, 425 (This genus?). Pliocene (Etchegoin); California; 432 (This genus?). Pliocene (Idaho); Idaho.
Merrill, G. P. 1907 A, 57, 58. Miocene; Nebraska, New Mexico.
Osmont, V. C. 1904 A, 74. Pliocene; California.

HIPPARION Christol. Type not fixed.

Hay, O. P. 1902 A, 619.
Abel, O. 1902 A, 170.
1909 E, (246) (Hipparion); (247) (Neohipparion).
1911 A, 178.
1912 C, (62), fig. 1.
1912 F, 235, 677, fig. 164.
1914 A, 247, fig. 223 (Hipparion); 247 (Neohipparion).
1919 A, 796, fig. 600.
1920 A, 452, fig. 690.
1921 A, 184.
1922 C, 115, fig. 105.
1926 B, 362, 419, 428, 447 (Hipparion); 362, 396, 428, 433, 452 (Neohipparion).
1926 H, (160) (Neohipparion, Hipparion).
1928 B, 48, 63, 72, 93 (Hipparion, Neohipparion).
Ameghino, F. 1885 A, 204.
1889 A, 521, 969, 974, 979.
1904 A, 531 (Hipparion); 533 (Neohipparion).
Anonymous 1908 B, 122 (Neohipparion).
Antonius, O. 1913 A, 244.
1919 A, 274, 281, 288, 292.
1923 A, (32).
Arldt, T. 1907 D, 658.
1909 C, 458.
Barbour, E. H. 1914 C, 222 (Hipparion, Neohipparion).
Beasley, W. L. 1903 A, 451.
Beddard, F. E. 1902 A, 246.
Boas, J. E. V. 1914 B, 597, fig. 44.
Boule, M. 1902 B, 912.
1905 A, 1664.
Branca, W. 1915 A, 52.
Bronn, H. G. 1848 A, 583.
1849 A, 707 (Hippotherium).
Cardoso, A. 1912 A, 400.
Case, E. C. 1899 B, 165.
Condon, T. 1902 A, 133, pls. xxiv, xxv.
1910 A, 111, pl. xxiv.
Dall and Harris 1892 A, 296 (Hippotherium).
Dean, B. 1906 A, 377.
Delafontaine, M. 1875 A, 175.
Depéret, C. 1905 A, 1518.
1905 B, 23.
1907 B.
1912 A, 708.
Dollo, L. 1896 A, 88.
Fairchild, H. L. 1894 A, 209.
Fejérváry, G. J. de 1921 B, 183 (Hipparion, Neohipparion).
Floderus, M. 1910 A, 99, fig. 1.
Flower, W. H. 1873 B, 101.
1892 A, 38, fig. 5.
Freudenberg, W. 1922 A, 10 (Neohipparion).
Gaudry, A. 1867 A, 218, pls. xxxiv-xxxvi.
1891 C, 43, figs. 5, 6, 14, 15, 29, 40.
1896 A, 87.
1906 A, 11.
Gervais, P. 1852 A, 65, explan. pl. xix.
1853 B, 36.
1859 A, 80.
Gidley, J. W. 1903 B, 465 (Hipparion); 466 (Neohipparion; type *N. whitneyi* Gidley).
1904 B, 191 (Hipparion); 194 (Neohipparion).
1907 A, 869 (Hipparion); 869, 924 (Neohipparion).
Giebel, C. G. 1855 A, 64, pl. xxvi, fig. 7.
1883 A, 145.
Gregory, W. K. 1912 F, 280, figs. 3, 5 (Neohipparion).
1917 D, 623.
Haug, E. 1911 A, 1705, 1706, 1886 (Neohipparion)
Hay, O. P. 1914 A, 147 (Neohipparion).
1918 B, 9, 10.
1919 A, 311.
1919 D, 373.
1923 A, 486.
1925 D, 240, 242.
1925 E, 381.
Heilprin, A. 1887 A, 371, 372.
Hescheler, K. 1906 A, 31.
Hoernes, R. 1886 A, 671.
Huxley, T. H. 1870 F, 533, 542.
1876 D, 200.
1876 F, 185.
Jacobi, A. 1921 A, 211.
Jaekel, O. 1902 E, 1114.
Joleaud, L. 1919 A, 708, fig. 4.
1919 B, 177.
1919 C, 310.
1919 D, 413.
Knipe, H. R. 1912 A, 169, fig.
Koken, E. 1893 B, 484.
Lankester, E. R. 1905 A, 136, fig. 93.
Leche, W. 1887 A.
1900 A, 1035.
1921 A, 69.
Loomis, F. B. 1926 A, 126, 131-133, 138-142.

Lull, R. S. 1907 A, 179 (Neohipparion); 180, fig. 4 (Hipparion).
1913 A, 12 (Neohipparion).
1917 B, 300, 611, 617, figs. 54, 223-225.
Lydekker, R. 1903 B, 202.
1904 A, 18.
1907 A, 5, fig. 2 D.
1912 A, 256, fig. (Hipparion); 258 (Neohipparion).
Major, C. J. F. 1880 A.
Marsh, O. C. 1874 E, 290, fig. 75.
Matthew, W. D. 1903 A, 23, pl. v.
1907 A, 176 (Neohipparion).
1908 I, 122 (Neohipparion).
1909 A, 119 (Neohipparion).
1910 G, 155 (Neohipparion).
1913 F, 20, 25, figs. 12, 16, 21.
1914 G, 234.
1915 A, 236, 314.
1915 K, 413, 456.
1916 J, 9, 11, 12.
1924 B, 630.
1924 C, 69, 153, 162, 172 (Hipparion); 166 (Neohipparion).
1924 E, 748, 752.
1924 G, 630.
1926 B, 5, 6.
1926 C, 160, 164, 167 (Hipparion, Neohipparion); 165, 167 (Nannithehippus as subgenus; type *Merychippus phlegon*).
1928 B, 979, fig. 15.
Matthew and Cook 1909 A, 367, 389 (Hipparion); 366, 388 (Neohipparion).
Merriam, J. C. 1911 B, 217 (Neohipparion).
1914 C, 644 (Neohipparion).
1915 A, 1, 7, 8.
1915 E, 194, 218 (Neohipparion); 233 (Hipparion).
1915 F, 255, 258.
1915 G, 99 (Neohipparion).
1916 C, 122 (Neohipparion).
1916 F, 171.
1917 A.
1919 A, 451, 528, 530, 556 (Hipparion); 452, 455, 531, 556 (Neohipparion).
Merriam, Stock, Moody 1925 A, 56, 59.
Meunier, S. 1903 A, 776 ("hipparions").
Miller, G. S. 1920 B, 190.
Moreau, L. 1914 A, 87.
O'Harra, C. C. 1910 A, 96, 133.
Osborn, H. F. 1902 H, 715.
1905 K, 608 (Neohipparion).
1905 L, 564 (Neohipparion).
1907 G, 177, fig. 164.
1909 D, 79, 80, 83 (Hipparion, Neohipparion).
1910 B, 617 (Hipparion); 625 (Neohipparion).
1912 G, 248.
1915 B, 222.
1917 B, 266, 267, fig.
1918 A, 4, 22, 24, 27-30, 33, 146, 173.
1922 E, 282.
Owen, R. 1845 B, 573, pl. cxxxvi, fig. 3 (Hippotherium).
1868 A, 884.
1869 E, 536, fig. 3.
1879 C, 581.
Palacký, J. 1903 B, 312.
Palmer, T. S. 1904 A, 325, 937.
Pavlow, M. 1903 A, 181.
1907 A, 143.
1915 A, 18.
1925 A, 313-328, fig. 5 (Hipparion, Hippotherium, Neohipparion).
Pilgrim, G. E. 1913 A, 267, 295.
Pocock, R. I. 1905 A, 517.
Preiswerk, G. 1895 A, 435, fig. 4.
Regnault, F. 1903 A, 110.
Reynolds, S. H. 1897 A, 508, 524, fig. 110.
Rosenberg, A. 1873 A, 135.
Sauvage, H. E. 1882 A, 105, fig.
Scharff, R. F. 1911 A, 148.
Schlesinger, G. 1914 A, 212, figs. 1, 5-7.
Schlosser, M. 1902 J, 208.
1903 I, 78, 84, 181, 211.
1924 A, 67.
Schmidt, O. 1886 A, 202, fig. 35.
Scott, W. B. 1896 D, 53.
1913 A, 291.
Seeley, H. G. 1878 A, 224.
Sefve, I. 1914 A, 248.
1927 A, 1-91, pls. i-vii.
Sellards, E. H. 1914 A, 162 (Neohipparion).
1915 C, 8.
Shufeldt, R. W. 1889 D, 11.
Steinmann, G. 1907 A, 492.
Sternberg, C. 1881 A, 541.
Stromer, E. 1906 A, 210.
Thorpe, M. R. 1927 A, 168.
Tornier, G. 1888 A, 303.
Trouessart, E. L. 1892 A, 188.
1905 A, 639 (Neohipparion); 641 (Hipparion).
Underhill, B. M. 1907 A, 117.
Veith, A. 1912 A, 1.
Villada, M. M. 1903 A, 444.
Wallace, A. R. 1876 A, I, 495; II, 211.
Weber, M. 1904 A, 600, 621.
Weber and Abel 1928 A, xviii, xxii, 636, 677, 679, 682, fig. 466 (Hipparion, Neohipparion).
Weber and Burlet 1927 A, 250, fig. 187.
Winge, H. 1906 A, 150.
Woodward, A. S. 1898 D, 333.
Wright, R. R. 1883 A, 251.
Zittel, K. A. 1895 A, 305.
1897 A, 126.
Zittel and Schlosser 1911 A, 461 (Hipparion); 462 (Neohipparion).
1923 A, 417, 541, 548, figs. 519, 670, 671, 673, 679, 680, 684 (Hipparion); 548 (Neohipparion).

Hipparion affine Leidy.

Hay, O. P. 1902 A, 619.
Abel, O. 1926 B, 423, 428, 430, fig. 269 (Neohipparion).
Gidley, J. W. 1903 C, 634 (Hippotherium).
1907 A, 873, 887 (Neohipparrion).
Joleaud, L. 1919 C, 310.
Matthew, W. D. 1909 C, 117 (Neohipparion).
1923 A, 12.
1923 E, 131.
1924 C, 67, 172, 174.
Matthew and Cook 1909 A, 338 (Neohipparion affine?).

Merriam, J. C. 1915 A, 2 (Neohipparion).
1917 A, 436 (This species?).
Merriam, Stock, Moody 1925 A, 76.
Merrill, G. P. 1907 A, 37.
Osborn, H. F. 1918 A, 174, 178, text-fig. 141.
Sinclair, W. J. 1915 A, 77 (This species?).
Lower Pliocene (Upper Snake Creek); Nebraska.

Hipparion anthonyi Merriam.

Merriam, J. C. 1916 D, 131, figs. 1, 2.
Buwalda, J. P. 1924 A, 572.
Merriam, J. C. 1917 A, 428 (This species?).
Merriam, Stock, Moody 1925 A, 59.
Osborn, H. F. 1918 A, 179, 190, text-fig. 153.
Stock, C. 1925 A, 18 (This species?).
Pliocene (Rattlesnake?); Oregon.

Hipparion coloradense Osborn.

Osborn, H. F. 1918 A, 6, 174, 175, 183, text-fig. 146.
Abel, O. 1928 B, 43, 77, 80, figs. 20, 45.
Upper Miocene or Lower Pliocene (Pawnee Creek); Colorado.

Hipparion condoni Merriam.

Merriam, J. C. 1915 A, 6, figs. 4, 5.
1916 D, 133.
Osborn, H. F. 1918 A, 22, 27, 174, 175, text-fig. 139.
Miocene (Ellensburg); Washington: (Mascall); Oregon.

Hipparion cragini Hay.

Hay, O. P. 1917 D, 42, pl. i, figs. 6, 7.
Calvin, S. 1909 A, 138 ("Equus").
1911 A, 211, pl. xix, figs. 5, 7 (H. gratum).
Hay, O. P. 1914 A, 26, 149, 150, pl. ix, figs. 1-4, 7; text-fig. 44 (Neohipparion gratum?).
1924 D, 140, 146, 270 (Hipparion, Neohipparion).
Pleistocene (Aftonian); Kansas, Missouri, Iowa.

The specimens from Missouri and Iowa may belong to undescribed species.

Hipparion dolichops Gidley.

Gidley, J. W. 1906 C, 148, figs. 14-17 (Neohipparion).
Cook, H. J. 1922 B, 10, 16, 6 figs. (This species?).
Gidley, J. W. 1907 A, 876, 926 (Neohipparion).
Matthew, W. D. 1909 C, 117 (Neohipparion).
Osborn, H. F. 1918 A, 25, 26, 174, text-fig. 145.
Pavlow, M. W. 1925 A, 316, 324, fig. 2 (Neohipparion).
Zittel and Schlosser 1911 A, 462, fig. 645 (Neohipparion).
1923 A, 548, fig. 684 (Neohipparion).
Upper Miocene (Arikaree); South Dakota.

Hipparion eurystylum (Cope).

Hay, O. P. 1902 A, 620.
Cummins, W. F. 1893 A, 203 (Equus euristylus).
Dumble, E. T. 1894 A, 559 (Equus).
Gidley, J. W. 1901 A, 107, 125, 140, figs. 14-16
1903 C, 630 (Equus).
1907 A, 875, 918.
Matthew, W. D. 1909 C, 117 (Neohipparion).
Merriam, J. C. 1915 A, 3 (Equus).
Montgomery, T. H. 1904 A, 58 (Equus).
Osborn, H. F. 1918 A, 26, 174, 186, pl. xxxiii, figs. 1-4; text-fig. 149 (H. eurystyle).
Trouessart, E. L. 1905 A, 640.
Miocene (Clarendon); Texas, or Pliocene; Nevada?

Hipparion gidleyi (Merriam).

Merriam, J. C. 1915 A, 1, fig. 1 (Neohipparion).
Joleaud, L. 1919 C, 310.
Osborn, H. F. 1918 A, 22, 29, 174, 187, text-fig. 150.
Upper Miocene or Lower Pliocene (San Pablo?); California.

Hipparion gratum Leidy.

Hay, O. P. 1902 A, 620.
Abel, O. 1926 B, 423, fig. 269.
Baker, F. C. 1920 A, 464 (Neohipparion).
Barbour and Cook 1917 B, 180.
Freudenberg, W. 1922 A, 10 (Hippotherium).
Gidley, J. W. 1906 C, 145, figs. 10-13 (Neohipparion).
1907 A, 869, 873, 888 (Neohipparion).
Hay, O. P. 1917 D, 42 (Neohipparion).
1924 D, 140, 146.
Joleaud, L. 1919 A, 708.
1919 B, 177.
1919 C, 311.
Loomis, F. B. 1926 A, 133.
Matthew, W. D. 1909 C, 117 (Neohipparion).
1918 A, 186, 213.
1924 C, 67, 172, 174.
Merriam, J. C. 1916 C, 118 (Neohipparion).
1917 A, 436.
Merriam, Stock, Moody 1925 A, 76.
Merrill, G. P. 1907 A, 38 (Hipparion); 39, 40 (Hippotherium).
Osborn, H. F. 1918 A, 25, 28, 174, 179, pl. xxxii, fig. 3; text-figs. 142, 143.
Pavlow, M. W. 1925 A, 315, 324, fig. 1 (Neohipparion).
Sinclair, W. J. 1915 A, 77.
Trouessart, E. L. 1905 A, 640.
Miocene or Pliocene (Little White River); South Dakota; Lower Pliocene (Upper Snake Creek); Nebraska: Miocene (Valentine); Nebraska.

Hipparion gratum tehonense Merriam.

Merriam, J. C. 1916 C, 118, figs. 1, 2, 4-8 (Neohipparion).
1917 A, 426.
Osborn, H. F. 1918 A, 25, 174, 189, text-fig. 152.
Pliocene (Chanac); California.

Hipparion ingenuum (Leidy).

Leidy, J. 1885 A, 33 (Hippotherium).
Hay, O. P. 1902 A, 620 (H. gratum, in part).
Gidley, J. W. 1907 A, 874, 902, 905.
Hay, O. P. 1923 A, 486.
Matson and Clapp 1909 A, 136 (Hippotherium).
Matthew, W. D. 1909 C, 117 (Neohipparion).
Merriam, J. C. 1917 A, 439.
1919 A, 532, 559.
Merrill, G. P. 1907 A, 40 (Hippotherium).

Osborn, H. F. 1918 A, 28, 174, 191, text-fig. 154.
Sellards, E. H. 1916 B, 94, 97.
Spencer, J. W. 1895 A, 136, 137.
Trouessart, E. L. 1905 A, 640 (Syn. of H. gratum).
Pliocene (Alachua and Bone Valley); Florida.

Hipparion lenticulare (Cope).

Hay, O. P. 1902 A, 617 (Merychippus).
Abel, O. 1926 B, 428.
Cummins, W. F. 1893 A, 203 (Merychippus).
Dumble, E. T. 1894 A, 559 (Protohippus).
Gidley, J. W. 1903 A, 630 (Protohippus); 634 (Hipparion).
1907 A, 915 (Hipparion); 875 (Protohippus).
Loomis, F. B. 1926 A, 133.
Matthew, W. D. 1909 C, 117 (Neohipparion).
1918 A, 186, 213.
1924 C, 175.
Montgomery, T. H. 1904 A, 57 (Protohippus).
Osborn, H. F. 1918 A, 26, 174, 184, pl. xxxii, fig. 2; pl. xxxiii, figs. 6, 7; text-figs. 147-148a.
Trouessart, E. L. 1905 A, 638 (Merychippus).
Lower Pliocene (Clarendon); Texas.

Hipparion leptode (Merriam).

Merriam, J. C. 1915 A, 3, fig. 3 (Neohipparion).
1916 D, 133 (Neohipparion).
1917 A, 429 (Neohipparion).
Merriam and Stock 1928 A, 9, pl. i; text-figs. 4-10.
Merriam, Stock, Moody 1925 A, 59 (H. leptode or H. occidentale).
Osborn, H. F. 1918 A, 22, 30, 174, 197, text-fig. 161.
Pliocene (Thousand Creek); California.

Hipparion minus Sellards.

Sellards, E. H. 1916 B, 96, pl. ii, fig. 10; pl. xiii, fig. 8 (H. minor).
Abel, O. 1926 B, 428 (H. minor).
1926 H, (163).
Hay, O. P. 1923 A, 197, 380.
Joleaud, L. 1919 A, 708 (H. minor).
1919 C, 311 (H. minor).
Merriam, J. C. 1917 A, 439 (H. minor).
Osborn, H. F. 1918 A, 28, 29, 174, 192, text-fig. 156.
Pliocene (Bone Valley); Florida.

Hipparion mohavense Merriam.

Merriam, J. C. 1913 H, 436, figs. 1-3 (This genus?).
Abel, O. 1926 B, 428.
1928 B, 81, fig. 48.
Clark, B. L. 1921 A, table.
Joleaud, L. 1919 C, 310.
Loomis, F. B. 1926 A, 139, fig. 28.
Matthew, W. D. 1924 C, 173, 175.
Merriam, J. C. 1915 A, 3, 5, 8.
1916 C, 118.
1917 A, 426 (This species?); 430.
1919 A, 525, 527, 530, 549, 559, 560, figs. 163-170b.
Merriam, Stock, Moody 1925 A, 59.
Osborn, H. F. 1918 A, 22, 29, 30, 174, 193, text-fig. 156.
Stock, C. 1921 B, 20, fig. 1 (H. near mohavense).
Lower Pliocene (Ricardo, Siestan?, Orinda); California.

Hipparion mohavense callodonte Merriam.

Merriam, J. C. 1915 D, 15, figs. 5-7.
1916 D, 132.
1917 A, 430.
1919 A, 525, 527, 560, figs. 171-175.
Osborn, H. F. 1918 A, 29, 174, 194, text-fig. 158.
Stock, C. 1921 B, 20.
Lower Pliocene (Ricardo); California.

Hipparion molle Merriam.

Merriam, J. C. 1915 A, 3, fig. 2 (Neohipparion).
Joleaud, L. 1919 C, 311.
Merriam, J. C. 1915 E, 218, fig. 26 (Neohipparion).
1916 C, 120, figs. 3, 9 (Neohipparion. This species?).
1917 A, 425 (Neohipparion); 426 (Hipparion. This species?).
Merriam, Stock, Moody 1925 A, 76.
Nomland, J. O. 1916 A, 83 (Neohipparion).
1917 B, 297, 298 (Neohipparion).
Osborn, H. F. 1918 A, 22, 29, 174, 196, text-fig. 160.
Pliocene (Etchegoin, Chanac); California.

Hipparion montezumæ (Leidy).

Hay, O. P. 1902 A, 620.
Freudenberg, W. 1922 A, 4 (Hippotherium montezuma).
Gidley, J. W. 1907 A, 874, 899, 900 (Neohipparion).
Joleaud, L. 1919 C, 311 (H. montezuma).
Matthew, W. D. 1909 C, 117 (Neohipparion).
Merriam, J. C. 1915 A, 3 (Neohipparion).
Merriam, Stock, Moody 1925 A, 76.
Merrill, G. P. 1907 A, 40 (Hippotherium).
Osborn, H. F. 1904 R, 12 (Equus).
1905 I, 110 (Equus).
1918 A, 31, 174, 197, text-fig. 161.
Trouessart, E. L. 1905 A, 640 (Neohipparion montazumai).
Miocene?; Mexico.

Hipparion occidentale Leidy.

Hay, O. P. 1902 A, 620.
Abel, O. 1928 B, 77, fig. 45.
Cook, H. J. 1922 B, 10.
Dall and Harris 1892 A, 282, 292 (Hippotherium).
Gidley, J. W. 1903 C, 634 (Hippotherium).
1904 A, 245 (Neohipparion).
1906 C, 145 (Neohipparion).
1907 A, 872, 877 (Neohipparion).
Joleaud, L. 1919 A, 708.
1919 B, 177.
1919 C, 310.
Loomis, F. B. 1926 A, 132.
Marsh, O. C. 1874 E, 291.
Matson and Clapp 1909 A, 137 (Hippotherium).
Matthew, W. D. 1909 C, 117 (Neohipparion).
1924 C, 67, 172.
Merriam, J. C. 1911 B, 230 (Neohipparion).
1917 A, 428, 429, 436 (This species?).

Merriam, J. C. 1918 A, 186, 213.
Merriam and Sinclair 1907 A, 195, 198 (Neohipparion).
Merriam and Stock 1927 A, 41 (This species?).
  1928 A, 17, text-fig. 10 (This species?) [H. (Neohipparion)].
Merriam, Stock, Moody 1925 A, 59, 78, fig. 33; fig. 34?.
O'Harra, C. C. 1920 A, 159.
Osborn, H. F. 1918 A, 25, 28, 174, 176, pl. xxv, fig. 9; pl. xxxiv, fig. 5; text-fig. 140.
Sinclair, W. J. 1915 A, 76 (This species?).
Stock, C. 1925 A, 18 (This species?).
Trouessart, E. L. 1905 A, 639 (Neohipparion).
  Miocene? (Little White River); South Dakota: Lower Pliocene (Snake Creek); Nebraska: (Rattlesnake); Oregon: (Thousand Creek); Nevada.

Hipparion peninsulatum (Cope).

Hay, O. P. 1902 A, 620.
Felix and Lenk 1891 A, 126.
Freudenberg, W. 1921 A, 131 (Hippotherium).
  1922 A, 4 (Hippotherium).
Gidley, J. W. 1907 A, 874, 900 (Syn. of Neohipparion montezumæ).
Joleaud, L. 1919 C, 311.
Loomis, F. B. 1926 A, 139, fig. 28.
Matthew, W. D. 1909 C, 117 (Neohipparion).
Osborn, H. F. 1918 A, 31, 174, 198, text-fig. 163.
  Pliocene; Mexico.

Hipparion phlegon (Hay).

Hay, O. P. 1902 A, 617 (Merychippus).
Boule and Thevenin 1920 A, 141 (Equus minutus).
Dumble, E. T. 1894 A, 559 (Equus minutus).
Gidley, J. W. 1901 A, 107, 127, 140, text-fig. 18 (Protohippus).
  1903 C, 627 ("Equus minutus=Protohippus sp?").
  1907 A, 875, 920 (Protohippus).
Matthew, W. D. 1909 C, 120 (Protohippus minutus).
  1925 B, 222 (Hipparion).
  1926 C, 165, 167 (Nannipus).
Merriam, J. C. 1917 A, 435 (Protohippus? minutus).
Montgomery, T. H. 1904 A, 58 (Equus minutus).
Osborn, H. F. 1918 A, 30, 147, 169, pl. xxxiii, fig. 8; text-fig. 136 (Pliohippus minutus, Equus phlægon).
Trouessart, E. L. 1905 A, 638 (Merychippus).
  Pliocene (Blanco); Texas.

Hipparion platystyle Merriam.

Merriam, J. C. 1915 A, 5.
  1917 A, 426.
  1919 A, 530.
Osborn, H. F. 1918 A, 22, 26, 174, 188, text-fig. 151.
  Pliocene (Orinda); California.

Hipparion plicatile (Leidy).

Hay, O. P. 1902 A, 620.
Freudenberg, W. 1922 A, 10 (Hippotherium).
Gidley, J. W. 1907 A, 874, 905.
Gidley, J. W. 1915 D, 68.
Hay, O. P. 1916 C, 41, pl. ii, fig. 8.
  1923 A, 486.
Joleaud, L. 1919 A, 708.
  1919 B, 177.
Loomis, F. B. 1926 A, 139, fig. 28.
Matson, G. C. 1915 A, pl. xii, figs. *c*, *d* ("horse").
Matson and Clapp 1909 A, 136 (Hippotherium).
Matthew, W. D. 1909 C, 117 (Neohipparion).
  1924 C, 175.
Merriam, J. C. 1913 H, 438 (Neohipparion).
  1916 C, 118.
  1917 A, 439.
  1919 A, 532, 559.
Merrill, G. P. 1907 A, 40, 41 (Hippotherium).
Osborn, H. F. 1918 A, 28, 174, 192, text-figs. 155, 155a.
Sellards, E. H. 1913 A, pl. v, fig. 2 ("horse").
  1916 B, 94.
Spencer, J. W. 1895 A, 136.
Trouessart, E. L. 1904 A, 640 (Neohipparion).
  Pliocene (Alachua, Bone Valley); Florida.

Hipparion rectidens (Cope).

Hay, O. P. 1902 A, 620.
Freudenberg, W. 1921 A, 131 (Hippotherium).
Gidley, J. W. 1907 A, 874, 904.
Matthew, W. D. 1909 C, 117 (Neohipparion).
Osborn, H. F. 1918 A, 31, 174, 199, text-fig. 164.
Trouessart, E. L. 1905 A, 640 (Neohipparion).
  Pliocene; Mexico.

Hipparion sinclairi (Wortman).

Hay, O. P. 1902 A, 621 (H. sinclairii).
Ameghino, F. 1904 A, 43, 257, figs. 30, 349.
Dall and Harris 1892 A, 282 (Hippotherium).
Gidley, J. W. 1907 A, 874 (Hippotherium sinclairii); 900 (Neohipparion sinclairi).
Joleaud, L. 1919 C, 311 (H. saincleri).
Loomis, F. B. 1926 A, 139, fig. 28.
Matthew, W. D. 1909 C, 117 (Neohipparion sinclairii).
  1924 C, 172.
Merriam, J. C. 1911 B, 230 (Neohipparion).
  1915 A, 3 (Neohipparion sinclairii).
  1917 A, 428 (H. sinclairii).
Merriam and Sinclair 1907 A, 195, 198 (Neohipparion).
Merriam and Stock 1927 A, 41 (This species?).
Merriam, Stock, Moody 1925 A, 59, 76, fig. 32.
Osborn, H. F. 1918 A, 30, 174, 195, text-fig. 159.
Stock, C. 1925 A, 18 (H. sinclairii).
Trouessart, E. L. 1905 A, 640 (Neohipparion).
  Pliocene (Rattlesnake); Oregon.

Hipparion venustum Leidy.

Hay, O. P. 1902 A, 621.
Abel, O. 1926 B, 428.
Calvin, S. 1911 A, 211.
Gidley, J. W. 1907 A, 872, 884, 905.
Hay, O. P. 1923 A, 363.
Holmes, F. S. 1859 A, 184 ("hipparion").
  1860 A, vi ("hipparion").
Joleaud, L. 1919 A, 708.
  1919 B, 177.
Leidy, J. 1859 J, 181 (Hippotherium).
Matthew, W. D. 1924 C, 175.

Merriam, J. C. 1917 A, 441.
1919 A, 532.
Osborn, H. F. 1918 A, 31, 174, 200, text-fig. 165.
Trouessart, E. L. 1905 A, 640 (Neohipparion). Pleistocene? (Ashley River); South Carolina.

Hipparion whitneyi Gidley.

Unless otherwise indicated the authors, as quoted, use for this species the generic name *Neohipparion.*

Gidley, J. W. 1903 B, 467, 474, 476.
Abel, O. 1912 F, 234, fig. 162.
1913 B, 754, fig. 102 (Hipparion).
1914 A, 136, fig. 94.
1914 D, 26, fig. 1.
1920 A, 449, fig. 686.
1922 C, 274, fig. 231.
1924 B, 19.
1926 B, 427, fig. 272.
1926 H, (163).
1928 B, 49, fig. 26.
Gidley, J. W. 1904 A, 245.
1906 C, 138, 148.
1907 A, 876, 924.
1927 D, 267, fig.
Joleaud, L. 1919 C, 310.
Loomis, F. B. 1926 A, 133, pl. x, fig. 26.
Lull, R. S. 1907 A, 180, fig. 14.
1917 B, 617 (Hipparion).
Matthew, W. D. 1909 C, 117.
1913 F, 21, fig. 9 (Hipparion).
1915 K, 452, fig. 28 (Hipparion).
1917 A, 575 (Hipparion).
1924 C, 172.
1926 C, 165, fig. 23.
Matthew and Cook 1909 A, 388 (This species?).
O'Harra, C. C. 1910 A, 98.
1920 A, 102, 159, pls. xxiv, xxxiv; text-fig. 41 (Neohipparion).
Osborn, H. F. 1904 F, 13 (Hipparion).
1904 O, 156.
1904 R, 11, fig. 7 (Hipparion).
1904 S, 366.
1905 I, pl. xi.
1905 L, 565, fig. 3.
1910 B, 243, fig. 123.
1911 C, pl. iv ("Neohipparion").
1918 A, 25, 26, 174, pl. xxxi, figs. 1, 2; pl. xxxii, fig. 1; pl. xxxix, figs. 1, 4; pl. li, figs. 3, 6; text-figs. 51, 144 (Hipparion).
Pavlow, M. W. 1925 A, 324 (Neohipparion).
Scott, W. B. 1913 A, 298, 299, figs. 150, 151.
Trouessart, E. L. 1905 A, 639 (Neohipparion). Upper Miocene (Arikaree); South Dakota.

Hipparion sp. indet.

Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Buwalda, J. P. 1924 A, 572. Middle Neocene (Payette); Idaho.
Calvin, S. 1909 A, 138 ("Equus").
1911 A, 211, pl. xix, figs. 5, 7 (H. gratum?). Pleistocene (Aftonian); Missouri.
Chaney, R. 1925 A, 33. Tuolumne Table Mountain; California.
Cook, H. J. 1912 D, 44 (Neohipparion). Pliocene (Snake Creek); Nebraska.
Cope, E. D. 1885 M, 494 (Hippotherium). Miocene; Mexico.
Gidley, J. W. 1904 C, 57, 75 (Neohipparion). Pliocene (Orindan); California.
1915 D, 21 (Neohipparion). Phosphate beds, Florida.
1918 C, 180 (Neohipparion). Late Tertiary (Flaxville); Montana.
1922 B, 120, 121. Pliocene? (San Pedro Valley); Arizona.
1926 A, 83 ("Neohipparion"). Upper Pliocene or Lower Pleistocene; Arizona.
Hay, O. P. 1923 A, 486.
1924 D, 378. Pleistocene; Iowa, Missouri, Montana?, Nebraska?
1927 D, 302, 306. Pleistocene; California, Arizona.
1928 C, 423.
Matson, G. C. 1915 A, 37, pl. xii, figs. C, D ("horse"). Pliocene; Florida.
Matthew, W. D. 1901 B, 358, 359.
1909 C, 120 (Neohipparion). Pliocene (Blanco); Texas.
1924 B, 630. Pliocene (Blanco); Texas.
1924 G, 630. Pliocene; Florida.
Merriam, J. C. 1913 E, 375, 376, fig. 3 ("Hipparion? or Neohipparion"). Pliocene (Orindan?); California.
1913 H, 440 (This genus?) ("Hipparion or Neohipparion"). Pliocene (Orindan); California.
1915 B, 286, fig. 3 (Hipparion or Merychippus sp.). Miocene?; California.
1915 E, 217, fig. 27 (Neohipparion).
1917 A, 425; 435 (Neohipparion); 439 (Hipparion). Pliocene (Rattlesnake); Oregon; (Dunnellon); Florida.
1919 A, 525, 527, 554, figs. 176, 177. Upper Miocene (Barstow): Lower Pliocene (Ricardo); California.
1923 A, 400 ("horses"). Table Mountain, California.
Merriam and Buwalda 1917 A, 255. Miocene or Pliocene (Ellensburg); Washington.
Merriam and Sinclair 1907 A, 196 (Neohipparion). (Mascall); Oregon.
Merrill, G. P. 1907 A, 39 (Hipparion); 49 (Neohipparion). "Loup Fork"; Nebraska.
Moodie, R. L. 1923 A, 335, fig. 1. Pliocene (Snake Creek); Nebraska (This genus?).
Osborn, H. F. 1918 A, 19. Middle Miocene (Pawnee Creek); Colorado.
Osmont, V. C. 1904 A, 75. Pliocene (Orindan); California.
Sellards, E. H. 1915 D, 73, 76, 77, 81. Tertiary; Florida.
Smith, G. O. 1903 A, 2. Miocene (Ellensburg); Washington.
1904 A, 8. Miocene (Ellensburg); Washington.
Whittlesey, C. 1866 A, 16 (Hippotherion. This genus? Probably Equus). Pleistocene; Ohio.
Young and Cooper 1927 A, 5, fig.

PLIOHIPPUS Marsh. Type *P. pernix* Marsh.

Hay, O. P. 1902 A, 618 (Pliohippus, Hippidion).
Abel, O. 1909 E, (247).
1912 F, 629.
1913 B, 754a.
1926 B, 362, 396, 419, 433, 455.
1926 H, (161).
1928 B, 17, 44, 51.
Anonymous 1921 A, 323, fig.
Antonius, O. 1919 A, 287.
Arldt, T. 1907 B, 453.
1907 D, 203, 257.
1909 C, 458.
Berry, E. W. 1922 A, 111.
Berthoud, E. L. 1879 A, 155.
Boule and Thevenin 1920 A, 116.
Case, E. C. 1899 B, 165.
Clark, B. L. 1921 A, table.
Dall and Harris 1892 A, 285.
Fürbringer, M. 1902 A, 203.
Gidley, J. W. 1904 B, 193 (= ? Protohippus).
1907 A, 868 (Protohippus); 869 (Hippidion).
Haug, E. 1911 A, 1706.
Hay, O. P. 1919 D, 375.
1923 A, 2, 9, 15.
1925 D, 241.
Heilprin, A. 1887 A, 12 (Hippidium); 371, 372 (Pliohippus).
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1926 A, 233, figs. 7, 8, 24.
Lucas, F. A. 1901 J, 166.
Lull, R. S. 1907 A, 178, 181, fig. 6.
1913 A, 12 (Pliohippus, Hippidion).
1917 B, 611, 617, 618.
Lydekker, R. 1907 A, 5, fig. 12.
1912 A, 250 (Pliohippus, Hippidium).
Matthew, W. D. 1901 A, 374.
1903 A, 20.
1908 A, 20 (Pliohippus); 24 (Hippidion).
1909 C, 119.
1910 G, 155.
1913 B, 291.
1913 F, 20, 25, fig. 16.
1915 A, 196, 236, 314.
1915 K, 456.
1916 J, 9, 11.
1920 C, 475.
1924 B, 630.
1924 C, 69, 153, 166.
1924 D, 1.
1924 E, 748.
1924 G, 629.
1926 C, 151, 161, 167, figs. 8, 27.
1928 B, 979, fig. 15.
Matthew and Cook 1909 A, 366, 368 (Pliohippus, Hippidion).
Merriam, J. C. 1911 B, 215, 216, 217, 219, 221, 265.
1915 E, 194 (This genus?); 219, 233.
1915 F, 255.
1915 G, 99.
1916 B, 525.
1916 D, 132.
1917 A.
1919 A, 451, 455, 528.
Merriam, Stock, Moody 1925 A, 59.
Osborn, H. F. 1904 R, 11.
Osborn, H. F. 1905 H, 225.
1905 I, 109.
1910 B, 346, 349, 350, 628.
1912 G, 250.
1918 A, 4, 22, 28, 29, 50, 146.
1922 E, 282.
1926 C, 341.
Palacký, J. 1903 B, 317 (Pliohippus, Hippidion).
Palmer, T. S. 1904 A, 552, 937.
Pavlow, M. W. 1925 A, 317, seq.
Schlesinger, G. 1914 A, 214.
Scott, W. B. 1913 A, 296, 309.
1917 A, 108.
Shufeldt, R. W. 1889 D, 11.
Taylor, W. P. 1917 A, 272.
Thorpe, M. R. 1927 A, 168.
Trouessart, E. L. 1905 A, 638.
Underhill, B. M. 1907 A, 117, 120.
Wallace, A. R. 1876 A, I, 135.
Weber, M. 1904 A, 622.
Weber and Abel 1928 A, 680.
Woodward, H. 1904 B, 160.
Zittel and Schlosser 1911 A, 461.
1923 A, 548. 550, 673, 679, 680.

Pliohippus coalingensis (Merriam).

Merriam, J. C. 1914 C, 645 (Protohippus).
Clark, B. L. 1921 A, table.
Merriam, J. C. 1914 C, 644, 645 (Protohippus).
1915 E, 193, 194, 220, fig. 29.
1917 A, 425.
1919 A, 507.
Merriam, Stock, Moody 1925 A, 60.
Nomland, J. O. 1917 A, 217.
Osborn, H. F. 1918 A, 24, 30, 31, 147, 165, text-fig. 133.
Pliocene (Etchegoin); California.

Pliohippus cumminsii (Cope).

Hay, O. P. 1902 A, 616 (Merychippus).
Boule and Thevenin 1920 A, 141 (Equus).
Dumble, E. T. 1894 A, 559 (Equus).
Frick, C. 1921 A, 289, 328, 332.
Gidley, J. W. 1901 A, 107, 126, 140, text-fig. 17 (Protohippus).
1903 C, 624, 627 ("Equus=Protohippus sp.?").
1907 A, 875, 919 (Protohippus).
Matthew, W. D. 1909 C, 120 (Protohippus).
Merriam, J. C. 1916 B, 526, fig. 15 [Equus (Pliohippus)].
1917 A, 435.
Montgomery, T. H. 1904 A, 58 (Equus).
Osborn, H. F. 1918 A, 30, 147, 168, pl. xxiv, figs. 3, 4; text-fig. 135.
Trouessart, E. L. 1905 A, 638 (Merychippus).
Pliocene (Blanco); Texas.

Pliohippus edensis Frick.

Frick, C. 1921 A, 388, figs. 111-125 (with sub-forms A. B.); 396-401, figs. 132-151 (This species?).
1926 C, 441.
Stock, C. 1925 A, 21.
Pliocene (Eden); California.

Pliohippus fairbanksi Merriam.

Merriam, J. C. 1915 D, 55, fig. 8.
Clark, B. L. 1921 A, table.
Frick, C. 1921 A, 392.
Merriam, J. C. 1916 B, 530.
1917 A, 425, 428, 429 (This species?); 430.
1919 A, 506, 525, 527, 564, figs. 183-187, 190-192.
Merriam and Stock 1928 A, 8 (This species?).
Merriam, Stock, Moody 1925 A, 71.
Osborn, H. F. 1918 A, 24, 29, 30, 147, 164, text-fig. 131.
Stock, C. 1925 A, 18, 20 (This species?).
Pliocene (Pinole Tuff-Orinda); California: (Rattlesnake); Oregon: (Thousand Creek); Nevada: (Ricardo); California.

Pliohippus fossulatus (Cope).

Hay, O. P. 1902 A, 616 (Merychippus).
Abel, O. 1928 B, 54, 58, fig. 33.
Gidley, J. W. 1903 C, 634 (Protohippus).
1907 A, 875 (Merychippus); 914 (Protohippus).
Gregory, W. K. 1920 B, pl. xviii.
Matthew, W. D. 1909 C, 107 (Protohippus).
Montgomery, T. H. 1904 A, 57 (Protohippus).
Osborn, H. F. 1918 A, 26, 147, 156, pl. xxiii, fig. 1; pl. xxiv, fig. 1; text-figs. 124, 125.
Trouessart, E. L. 1905 A, 638 (Merychippus).
Upper Miocene or Lower Pliocene (Clarendon); Texas.

Pliohippus francescanus Frick.

Frick, C. 1921 A, 322, 386, pl. xlvi; fold. ii, figs. 1, 2; text-figs. 35-37 (P. francescana).
Hay, O. P. 1927 D, 163.
Stock, C. 1925 A, 21.
Pliocene (San Timoteo); California.

Pliohippus francescanus minor Frick.

Frick, C. 1921 A, 330, 386, fold. ii, figs. 3, 4; text-figs. 38-41 (P. francescana m.).
Hay, O. P. 1927 D, 163.
Stock, C. 1925 A, 21.
Pliocene (San Timoteo); California.

Pliohippus interpolatus (Cope).

Hay, O. P. 1902 A, 619 (Hippidion).
Boule and Thevenin 1920 A, 115 (Hippidium).
Cummins, W. F. 1893 A, 203 (Hippidium).
Dumble, E. T. 1894 A, 559 (Hippidium).
Frick, C. 1921 A, 333.
Gidley, J. W. 1903 C, 630 (Hippidium).
1907 A, 875, 917.
Lull, R. S. 1913 A, 3.
Matthew, W. D. 1909 C, 117 (Protohippus).
1918 A, 214.
Merriam, Stock, Moody 1925 A, 71.
Montgomery, T. H. 1904 A, 58 (Hippidium).
Osborn, H. F. 1918 A, 26, 147, 158, pl. xxiv, fig. 6; pl. xxv, fig. 13; text-fig. 126.
Trouessart, E. L. 1905 A, 639.
Upper Miocene or Lower Pliocene (Clarendon); Texas.

Pliohippus leidyanus Osborn.

Osborn, H. F. 1918 A, 28, 147, 162; pl. xxviii, figs. 3, 29; pl. xxx, figs. 1, 2; text-fig. 129.
Abel, O. 1926 B, 369, 397, 423, figs. 253, 257, 269.
1928 B, 33, 43, 58, figs. 12, 20, 25, 31.
Loomis, F. B. 1926 A, 142, pl. xiii; figs. 25, 31.
Matthew, W. D. 1918 A, 186 (No description).
1923 A, 12.
1923 E, 131.
1924 C, 67, 166, 170.
O'Harra, C. C. 1920 A, 159.
Osborn, H. F. 1927 A.
1928 B, 194.
Lower Pliocene (Upper Snake Creek); Nebraska.

Pliohippus lullianus Troxell.

Troxell, E. L. 1916 A, 335, 336, figs. 1-7.
Abel, O. 1926 B, 403, 405.
1926 H, (160).
1928 B, 35, 52, 56, figs. 15, 29.
Freudenberg, W. 1922 A, 10.
Gregory, W. K. 1920 B, 269, pl. xviii.
Loomis, F. B. 1926 A, 143, fig. 30.
Matthew, W. D. 1918 A, 214.
1924 C, 166, 171.
O'Harra, C. C. 1920 A, 105, 159, fig. 44.
Osborn, H. F. 1918 A, 25, 26, 147, 153, 160, pl. xxvii; text-fig. 127.
Weber and Abel 1928 A, 678, fig. 465.
Upper Miocene or Lower Pliocene (Oak Creek); South Dakota.

Pliohippus mirabilis (Leidy).

Hay, O. P. 1902 A, 617 (Merychippus).
Ameghino, F. 1904 A, 536, figs. 299, 305, 357, 358 (Protohippus).
Cook, H. J. 1922 B, 10 (Merychippus. This species?).
Dall and Harris 1892 A, 316 (Merychippus).
Gidley, J. W. 1903 C, 634 (Protohippus).
1906 C, 142 (Protohippus).
1907 A, 872, 883.
Loomis, F. B. 1926 A, 130.
Major, C. J. F. 1877 A, 5, 10 (Merychippus).
Matthew, W. D. 1901 B, 359.
1909 C, 117 (Protohippus).
1918 A, 186, 214.
1923 A, 12 (This species?).
1924 C, 67, 171.
Merriam, J. C. 1915 D, 54 (This species?).
1917 A, 430. 436 (This species?).
1919 A, 506, 525, 527, 567, fig. 180 (This species?).
Merrill, G. P. 1907 A, 46, 47 (Merychippus).
Osborn, H. F. 1918 A, 25, 28, 147, 148, pl. xxv, fig. 10; pl. xxvi, fig. 37; text-fig. 117.
Pavlow, M. W. 1925 A, 325 (Merychippus).
Sinclair, W. J. 1915 A, 77 (This species?).
Trouessart, E. L. 1905 A, 639 (Merychippus).
Zittel and Schlosser 1911 A, 461, fig. 644 (Merychippus).
Upper Miocene or Lower Pliocene (Niobrara River); Nebraska: (Snake Creek); Nebraska: Pliocene (Ricardo); California.

Pliohippus nobilis Osborn.

Osborn, H. F. 1918 A, 28, 147, 160, pl. xxvi, fig. 4; pl. xxviii, fig. 4; text-fig. 128.
Abel, O. 1928 B, 54, 58, fig. 32.

Loomis, F. B. 1926 A, 143.
Matthew, W. D. 1924 C, 67 (This species?).
Lower Pliocene (Republican River); Kansas.

Pliohippus osborni Frick.

Frick, C. 1921 A, 332, 383, figs. 103-110, with subform A; 393-395, figs. 127-131 (This species?).
1926 C, 441.
Stock, C. 1925 A, 21.
Pliocene (Eden); California.

Pliohippus pernix Marsh.

Hay, O. P. 1902 A, 618.
Abel, O. 1912 F, 234, fig. 162 (Protohippus).
1913 B, 754, fig. 102.
1914 A, 136, fig. 94 (Protohippus).
1914 D, 26, fig. 1 (Protohippus).
1922 C, 274, fig. 231.
Gidley, J. W. 1906 C, 144 (Protohippus).
1907 A, 873, 892.
Loomis, F. B. 1926 A, 130.
Lull, R. S. 1907 A, 178, fig. 13.
1913 A, 7.
1917 B, 617, fig. 222.
Marsh, O. C. 1874 E, 291.
Matthew, W. D. 1909 C, 117 (Protohippus).
1924 C, 166, 170, 171.
O'Harra, C. C. 1920 A, 159 (Protohippus).
Osborn, H. F. 1918 A, 25, 147, 151, pl. xxv, fig. 12; pl. xxviii, fig. 1; text-figs. 120, 121, 122.
Trouessart, E. L. 1905 A, 638.
Upper Miocene or Lower Pliocene (Little White River); South Dakota: (Upper Snake Creek); Nebraska.

Pliohippus robustus Marsh.

Hay, O. P. 1902 A, 618.
Gidley, J. W. 1907 A, 694, 873.
Lull, R. S. 1907 A, 178.
1913 A, 7.
Matthew, W. D. 1909 C, 117 (Protohippus).
O'Harra, C. C. 1920 A, 159.
Osborn, H. F. 1918 A, 25, 147, 155, text-fig. 123.
Upper Miocene or Lower Pliocene (Arikaree); Nebraska.

Pliohippus spectans (Cope).

Hay, O. P. 1902 A, 619 (Hippidion).
Boule and Thevenin 1920 A, 115 (Hippidium).
Cope and Matthew 1915 A, pl. cxlviiia, figs. 9-11 (Hippidium, Pliohippus).
Cummins, W. F. 1893 A, 203 (Hippidium).
Frick, C. 1921 A, 288.
Gidley, J. W. 1903 C, 630 (Hippidion. This species?).
1907 A, 873, 898.
Matthew, W. D. 1909 C, 117 (Protohippus. This species?).
1918 A, 214.
Merriam, J. C. 1917 A, 428.
Merriam and Sinclair 1907 A, 195.
Merriam, Stock, Moody 1925 A, 59, 71, figs. 26-30.
Osborn, H. F. 1918 A, 28, 30, 147, 164, pl. xxviii, fig. 2; text-fig. 132.
Stock, C. 1925 A, 18.
Trouessart, E. L. 1905 A, 639.
Lower Pliocene (Rattlesnake?); Oregon: Upper Miocene (Goodnight); Texas.

Pliohippus supremus (Leidy).

Hay, O. P. 1902 A, 618 (Merychippus).
Abel, O. 1926 B, 423, fig. 269.
Gidley, J. W. 1906 C, 143, figs. 8, 9 (Protohippus).
1907 A, 873, 889.
Haug, E. 1911 A, 1705.
Loomis, F. B. 1926 A, 130.
Matthew, W. D. 1909 C, 117 (Protohippus).
1924 C, 67, 170.
Merriam, J. C. 1911 B, 230.
Merriam and Stock 1928 A, 8.
O'Harra, C. C. 1920 A, 159 (Protohippus).
Osborn, H. F. 1909 D, 81.
1918 A, 25, 30, 147, 150, pl. xxv, fig. 11; pl. xxvi, fig. 2; pl. xxxi, figs. 3, 4; text-figs. 118, 119.
Trouessart, E. L. 1905 A, 638 (Syn. of Merychippus mirabilis).
Lower Pliocene (Upper Snake Creek); Nebraska.

Pliohippus tantalus Merriam.

Merriam, J. C. 1913 H, 440, figs. 4*a*, 4*b* (This genus?).
1915 D, 54.
1916 B, 530.
1917 A, 430.
1919 A, 506, 525, 527, 561, figs. 179-182, 189.
Osborn, H. F. 1918 A, 29, 147, 162, text-fig. 130.
Lower Pliocene (Ricardo); California.

Pliohippus sp. indet.

Anonymous 1916 B, 476. Pliocene; Nebraska.
Arnold and Anderson 1910 A, 98, 110, 300, pl. xxxiii, fig. 3. Upper Miocene (Jacalitos); California.
Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Clark, B. L. 1921 A, table. Pliocene (Siestan, Etchegoin); California.
Cook, H. J. 1912 D, 44. Pliocene (Snake Creek); Nebraska.
1922 B, 11. Pliocene (Snake Creek); Nebraska, Colorado.
Frick, C. 1921 A, 391, 401, figs. 126, 152-157 (This genus?). Pliocene (Eden); California.
Gidley, J. W. 1922 B, 120, 121. Pliocene? (San Pedro Valley); Arizona.
Hay, O. P. 1927 D, 301, 311 (This genus?). Pleistocene?; Arizona, California, Oregon, Washington.
Matthew, W. D. 1921 G, 661. Pliocene (Snake Creek); Nebraska.
1924 C, 171 (P. sp. max.). Pliocene (Upper Snake Creek); Nebraska.
Matthew and Cook 1909 A, 388, fig. 12. Pliocene (Snake Creek); Nebraska.
Merriam, J. C. 1911 B, 265, figs. 31, 35 (This genus?). Pliocene (Thousand Creek); Nevada.
1915 E, 217, 222, 223, figs. 28, 30, 33-37 (Equus or Pliohippus). Pliocene? (Etchegoin); California.

Merriam, J. C. 1917 A, 425 (This genus?). Pliocene? (Etchegoin); California; 426. Pliocene (Chanac) California; 436, Pliocene (Snake Creek); Nebraska.
1919 A, 569, figs. 193-210. Pliocene (Ricardo); California.
Merriam and Buwalda 1917 A, 258. Miocene (Ellenberg); California.
Merriam and Sinclair 1907 A, 196. Miocene (Mascall); Oregon.
Merriam and Stock 1928 A, 8, text-fig. 3. Pliocene (Thousand Creek); Nevada.
Merriam, Stock, Moody 1925 A, 54. Pliocene (Rattlesnake); Oregon.
Nomland, J. O. 1916 A, 83 (Equus or Pliohippus). Pliocene (Etchegoin); California.
Osborn, H. F. 1918 A, 19. Upper Miocene (Pawnee Creek); Colorado.
Sinclair, W. J. 1915 A, 77. Pliocene (Snake Creek); Nebraska.
Stock, C. 1921 A, 257, figs. 2-6 (This genus?). Pliocene? (Panaca); Nevada.

PLESIPPUS Matthew. Type *Equus simplicidens* Cope.

Matthew, W. D. 1924 D, 2.
Abel, O. 1926 B, 396, 433.
1926 H, (160).
1928 B, 20, 57, 78.
Loomis, F. B. 1926 A, 146.
Matthew, W. D. 1924 G, 629 ("horse intermediate").
1925 B, 222.
1926 C, 150, 160, 167.
1928 B, 979, fig. 15.
Thorpe, M. R. 1927 A, 168.

Plesippus proversus Merriam.

Merriam, J. C. 1916 B, 525, figs. 1-13 (Pliohippus).
Abel, O. 1926 B, 433 (Pliohippus).
Clark, B. L. 1921 A, table (Pliohippus).
Frick, C. 1921 A, 289, 309, 328 (Pliohippus).
Loomis, F. B. 1926 A, 147, fig. 31 (Plesippus).
Matthew, W. D. 1924 C, 166 (Pliohippus).
Merriam, J. C. 1915 D, 56, figs. 9-12 (Equus or Pliohippus sp.).
1915 E, 224, figs. 33, 34 (Equus or Pliohippus sp.).
1917 A, 425 (Pliohippus).
Osborn, H. F. 1918 A, 24, 31, 32, 33, 147, 170, text-figs. 137, 138 (Pliohippus).
Upper or Middle Pliocene (Etchegoin); California.

Plesippus simplicidens (Cope).

Hay, O. P. 1902 A, 618 (Pliohippus).
Abel, O. 1926 B, 433.
1928 B, 54, figs. 34, 35 (Plesippus).
Boule and Thevenin 1920 A, 141 (Equus).
Cummins, W. F. 1893 A, 203 (Equus. This species?).
Dumble, E. T. 1894 A, 559 (Equus).
Frick, C. 1921 A, 288, 328, 332 (Pliohippus).
Gidley, J. W. 1901 A, 107, 123, 149, text-fig. 13 (Pliohippus).
1903 C, 627 (Pliohippus).
1907 A, 875, 911 (Pliohippus).
Loomis, F. B. 1926 A, 147, fig. 31.
Matthew, W. D. 1909 C, 120 (Pliohippus).
1924 D, 2 (Plesippus).
1925 B, 222 (Equus).
1926 C, 162, figs. 19, 20, 21.
Merriam, J. C. 1915 D, 56 (Equus).
1915 E, 230 (Equus).
1916 B, 526, figs. 14, 17 [E. (Pliohippus)].
1917 A, 435 (Pliohippus).
Montgomery, T. H. 1904 A, 58 (Pliohippus).
Osborn, H. F. 1915 B, 220, fig. 8 (Pliohippus).
1918 A, 30, 147, 167, pl. xxiv, fig. 5; pl. xxviii, fig. 5; text-fig. 134 (Pliohippus).
Trouessart, E. L. 1905 A, 639 (Pliohippus).
Upper Pliocene (Blanco); Texas.

EQUUS Linnæus. Type *E. caballus* Linnæus.

Hay, O. P. 1902 A, 621.
Abel, O. 1902 A, 170.
1909 D, (224).
1909 E, (246).
1912 F, 235, 504, 629, 671, fig. 164.
1913 B, 754*a* (Neohippus).
1914 A, 247 (Equus); 248 (Neohippus).
1914 D, 25.
1919 A, 865, fig. 662.
1920 A, 449, fig. 686*g* (Protohippus pernix).
1922 C, 32, 114, figs. 31-35, 106.
1926 B, 396, 430, 434, 436, 444.
1926 D, 64 ("pferde").
1926 H, (163) (Equus, Neohippus).
1928 B, 23, 53, 59, 61, 73, figs. 4, 6, 10, 14, 30 (Equus); 61, fig. 37 (Neohippus).
Adams, C. C. 1905 A, 54 ("horses").
Adloff, P. 1916 A, 598, figs. 6-8.
Agassiz, L. 1859 B, 186 ("horses").
Altmann, F. 1925 A, 109.
Ameghino, F. 1885 A, 203.
1889 A, 1012.
Ameghino, F. 1904 A, 530.
1904 C, 37.
1905 A, 28.
1905 C, 433, figs. 82, 84.
Anderson, R. J. 1905 A, 332.
1914 A, 534.
Anonymous 1908 B, 117 ("horses").
Anthony, R. 1912 A ("cheval").
1913 A, 266 ("cheval").
Antonius, O. 1912 A, (64).
1913 A, 244.
1913 B, 235.
1918 A.
1919 A, 274, 288.
1922 A, 133 ("pferde").
1923 A (32).
Arldt, T. 1907 D, 653.
1909 C, 458.
Arloing, S. 1867 A, 55 ("cheval").
Aureggio, —— 1914 A, 338 ("cheval").
Baird, S. F. 1876 A, 357 ("horse").
Baker, F. C. 1920 A, 458.

Bardenfleth, K. S. 1913 A, 92.
Baum, H. 1920 A, 19, figs. 3, 4, 7, 8, 10 ("pferd").
Beasley, W. L. 1903 A, 451 ("horse").
Beddard, F. E. 1902 A, 239.
Berry, E. W. 1922 A, 110 ("horses").
Bertelli, D. 1909 A, 162, figs. 5, 18.
Berthoud, E. L. 1881 A, 414 ("horse").
Beyer, H. 1908 A, 81, 98, fig. 23 ("pferd").
Black, D. 1915 A, 350, fig. 16.
Black, N. 1900 A, 13 ("horse").
Boas, J. E. V. 1884 B, 393 ("pferde").
    1914 B, 596, figs. 43, 44, 45.
Bojanus, L. H. 1824 C, 697, pl. lviii, fig. 1.
Boule, M. 1910 A, 1.
    1923 A, 494 ("horse").
Boule and Thevenin 1920 A, 86, 120, text-figs. 41, 43, 46, 47-49, 51-53.
Bradley, O. C. 1903 A, 112 ("horse").
    1904 A, 9 ("horse").
    1905 C, 244, figs. 1, 2.
    1906 A, 542 ("horse").
    1906 B, 530 ("horse").
    1907 A, 46.
    1908 A, 485 ("horse").
Brandt and Woldrich 1887 A, 115.
Brinkmann, A. 1922 A, 1-33, pls. i-iii.
Broili, F. 1917 A, 567, fig. 7 ("pferd").
Bronn, H. G. 1848 A, 465.
    1849 A, 707.
Bugnion, E. 1901 A, 95, fig. 1 ("cheval").
Burmeister, F. 1879 B, 476.
Calvin, S. 1897 A, 21 ("horses").
    1910 A, xii ("horses").
Camerano, L. 1916 B, 7, pl. iv, fig. 10 ("cavallo").
Cardoso, A. 1912 A.
Case, E. C. 1899 B, 165.
Cleland, J. 1863 B, 299 ("horse").
Colyer, J. F. 1905 A, 42 ("horses").
Cook, H. J. 1927 C, 241, 245 ("Equus").
Cope, E. D. 1880 U, 158.
    1895 G, 596.
Coyle, R. F. 1909 A, 584 ("horse").
Cummins, W. F. 1892 A, 149 ("horse").
    1893 A, 203.
Cunningham, J. T. 1904 A, 777 ("horses").
    1906 A, 323 ("horse").
Cuvier, F. 1825 A, 224, pl. xcii ("cheval").
Cuvier, G. 1805 A.
    1825 A, II, 99-113, pls. i-iii ("cheval").
Dall and Harris 1892 A, 283.
Dana, J. D. 1863 C, 336 ("horse").
De Stefani, C. 1921 A, 256.
Depéret, C. 1905 B, 23 ("cheval").
Diener, C. 1909 A, 56.
    1912 A, 218.
Dietrich, K. 1841 A, 85.
Dollo, L. 1896 A, 88.
    1922 A, 216 ("cheval").
Doran, A. H. G. 1878 A, 420, pl. lxi.
Eberlein, R. 1910 A, 72, pls. i-v.
Eggeling, H. 1904 A, 99.
Eichwald, E. 1832 A, 866 ("pferde").
    1835 A, 680.
Eimer, G. H. T. 1901 A, 257.
Eisler, P. 1895 A, 54 ("pferde").
Ellenberger and Baum 1903 A ("pferde").
Emmons, E. 1852 A, 96 ("horse").
Engelmann, O. 1910 A, 486 ("pferd").
Ewart, J. C. 1904 A, 590, figs. 1-5.
    1907 A, 555, seq.
    1909 A, 219.
Fairchild, H. L. 1894 A, 209.
Falconer and Murchison 1867 A, 104-112.
Fejérváry, G. J. de 1921 B, 183.
Felix and Lenk 1891 A, 134.
Filhol, H. 1889 A, 221 ("cheval").
Fischer, J. B. 1829 A, 429.
Floderus, M. 1910 A, 79 ("hästar").
Flower, W. H. 1892 A.
Foote, J. S. 1916 A, 108, 127, pls. xii, xvi.
    1921 A, 9, pl. ii, figs. 20, 21.
Fraas, E. 1913 D, lxiii ("pferde").
Frassetto, F. 1903 A, 183.
Frech, F. 1907 A, 316 ("pferde").
Frech and Geinitz 1903 A, 34.
Freudenberg, W. 1922 A, 4.
Freund, L. 1906 A, 115.
    1911 A, 386.
    1912 A, 557 ("pferde").
Frey, H. 1911 A, 416.
Fürbringer, M. 1902 A, 202 ("pferd").
Gadow, H. 1914 A, 504 ("horse").
Garman, S. 1884 E, 252 ("horses").
Garner, R. 1870 A, 121 ("horse").
Gaudry, A. 1891 C, 50, figs. 16-18.
    1906 A, 26, fig. 42 ("cheval").
Gaupp, E. 1905 D, 1037 ("pferd").
    1908 A, 184.
    1908 C, 683, 745.
    1912 B, 219.
Gegenbaur, C. 1880 A, 594 ("pferde").
Geikie, J. 1914 A, 323 ("horse").
Geinitz, E. 1903 A.
    1904 A.
Geoffroy St. Hilaire, E. F. 1832 A, 354 ("cheval").
Geoffroy St. Hilaire, I. 1835 A, 97.
Gervais, P. 1852 A, 64, 67.
    1853 B, 35 ("cheval").
    1855 A, 33.
    1859 A, 77.
Gidley, J. W. 1901 A, 91.
    1907 A, 869.
    1912 C, 19 ("horses").
    1913, in Matson and Sanford 1913 A, 143.
Giebel, C. G. 1855 A, 63, pl. xxvi.
    1883 A, pls. xxx, lvii, lxix, lxxv, lxxxiv, lxxxviii.
Gordon, C. H. 1913 A, 31, 64.
Gottlieb, H. 1914 A, 200 ("pferd").
Graves, R. J. 1831 A, 85 ("horse").
Gregory, W. K. 1908 A, 117, 5 figs.
    1912 F, 275, 285, 288, figs. 1, 6, 7.
    1917 D, 624, 633, fig. 1 ("horse").
    1920 B, 269, pl. xviii; text-figs. 9, 13.
    1927 I, 557.
    1927 J, 444, figs. 1, 2, 4, 5.
Hasse and Schwarck 1870 A, 129.
Haug, E. 1911 A, 1886.
Haworth, E. 1897 A, 280 ("horses").
Hay, O. P. 1909 G, 890.
    1910 D, 371.

Hay, O. P. 1912 B, 10, 13, fig. 8.
1912 D, 581, text-figs. 30-33*a*.
1914 A, 151, text-fig. 48.
1919 A, 311 ("horses").
1919 D, 368, 374.
1923 A, 484.
1924 D, 377.
1925 D, 239.
1926 E, 388.
1928 B, 238 ("horses").
Heilprin, A. 1887 A, 369-371.
Hensel, R. 1879 A, 535.
Hescheler, K. 1906 A, 29 ("pferd").
Hilzheimer, M. 1912 A, 105.
Hinze, R. 1910 A, 374.
Hoernes, R. 1886 A, 671.
Hoever, R. 1911 A, 90 ("pferde").
Holmes, F. S. 1870 A, 17 ("horse").
Hrdlička, A. 1903 A, 379.
Hue, E. 1907 A, pls. lv, lxxviii, lxxxvi, ci, cxv, cxxviii, cxxxix, clii, clxvi, clxxix.
Humphry, G. M. 1870 B, 72, fig. 5 ("horse").
Hutchinson, H. N. 1910 A, 245, fig. 90.
Huxley, T. H. 1863 F, 580 ("horse").
1870 F, 533, 542.
1876 D, 200.
1876 F, 183 ("horse").
1877 A, 42.
1880 E, 459.
Ingebrigtsen, O. 1924 A, 96.
Jacobi, A. 1921 A, 200, 211 ("pferde").
Jaekel, O. 1902 E, 1114.
Jaworski, Z. 1924 A, 525.
Joly, G. 1898 A, 1579 ("cheval").
Kampfen, P. N. 1905 A, 576, 580, figs. 63, 66.
Kennedy, W. 1893 A, 67 ("horse").
Keuchenius, P. E. 1913 A, 448.
Kingsbury, B. F. 1926 A, 102 ("horse").
Kingsley, J. S. 1925 A, 201, 298, figs. 209, 321.
Klaauw, C. J. 1924 B, 600.
Klatt, B. 1912 A, 163 ("pferde").
Köstlin, O. 1884 A.
Kraglievich, L. 1926 C, 70.
Laloy, L. 1907 A, 585 ("cheval").
Lankester, E. R. 1905 A, 134, figs. 91, 98.
1908 A, 333 ("horse").
Larger, R. 1913 A, 701 ("cheval").
Leche, W. 1887 A, pls. xciv, xcv.
1900 A, 1035 ("pferd").
LeDamany, P. 1902 A, 335 ("cheval").
1902 B, 371 ("cheval").
1903 G, 155 ("cheval").
1906 B, 164 ("cheval").
Lee, Stone, Gale 1915 A, 10.
Leunis and Ludwig 1883 A, 269.
Lindgren, W. 1911 A, 52.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1926 A, 18, 59, 147-150, figs. 1-5, 7-12.
Lubosch, W. 1914 A, 425.
1923 A, 71, figs. 15-17 ("pferd").
1926 A, 111 ("pferde").
Lull, R. S. 1907 A, 182, figs. 4, 6.
1913 A, 12.
1917 B, 301, 607, 611, figs. 210, 211.
Lydekker, R. 1894 B, 34.
1903 D, 123 ("horse").
Lydekker, R. 1904 A, 16.
1904 D, 171.
1906 A, 473, fig. 1 ("horse").
1907 A, 2.
1912 A.
Mackenzie, W. 1911 A, 363.
Magitot, E. 1875 A, 80 ("cheval").
Major, C. J. F. 1877 A.
1880 A.
Mannu, A. 1923 A, 162, figs. 1-5 ("pferd").
Marchlewski, M. T. 1924 A, 501.
Marsh, O. C. 1874 E, 288, fig. 75.
Martins, C. 1857 A, 70 ("cheval").
Matthew, W. D. 1902 G, 9, pl. ("horse").
1903 A, 23, pl. v.
1908 I, 117 ("horses").
1910 G, 154.
1913 F, 21, 25, 37, figs. 1-3, 13-15, 16-21, 24-38.
1914 G, 234.
1915 A, 187, 236, 314.
1915 K, 403, 410, 418, 453.
1916 J, 2, figs.
1917 A, 575.
1920 C, 475.
1924 B, 630.
1924 C, 168.
1924 D, 2.
1924 E, 748, 751, 753.
1924 G, 630.
1926 B, 5, 6.
1926 C, figs. 1-6, 8, 25-27.
1928 B, 979, fig. 15.
Matthew and Cook 1909 A, 367.
Meckel, J. F. 1823 A, 4 ("pferd").
1825 A ("pferd").
Menmuir, W. H. 1902 A, 275 ("horse").
Merriam, J. C. 1906 D, 249.
1910 C, 45, 50 ("horses").
1911 B, 215, 217.
1915 F, 261.
1915 G, 100.
1916 B, 525.
1917 A.
Middleton, J. 1844 A, 286 ("horse").
Miller, L. H. 1912 A, 74.
Mivart, St. G. 1878 B, 283, fig. 7 ("horse").
1888 A, 378 ("horse").
Montgomery, T. H. 1901 A, 21733 ("horse").
Moodie, R. L. 1923 B, 232, fig. 19.
Nehring, A. 1880 A.
1882 A, 31.
1884 A, 81-160.
Noack, T. 1902 A, 135 ("pferde").
1902 B, 164.
1903 A, 370.
1909 A, 782.
Noordenbos, W. 1905 B, 403 ("pferd").
Ohm,—— 1908 A, 356 ("pferde").
Osborn, H. F. 1904 R, 11.
1905 H, 225.
1905 I, 91, 107.
1905 J, 282.
1905 K, 608.
1906 E ("arab horse").
1907 G, 176, figs. 163, 164.
1909 D, 65, 125.

Osborn, H. F. 1910 A, 213.
1910 B, 614.
1912 A, 57.
1912 G, 250, 251.
1912 L, 177, 187, figs. 4-8.
1915 B, 212, fig. 5.
1916 B, 538.
1917 B, 314 ("horse").
1918 A, 4, 24, 33.
1926 A, 188.
1926 C, 341.
Owen, R. 1845 B, 572, pl. cxxxvi, figs. 1-11; pl. cxxxvii.
1848 B, pl. ii, fig. 19.
1868 A, 879, figs. 280-285.
1869 E, 536, pls. lvii-lx; text-figs. 4, 6.
Palacký, J. 1903 B, 318.
Palmer, T. S. 1904 A, 268, 937.
Pavlow, M. 1906 A, 200.
1925 A, 313, seq.
Perna, G. 1906 A, 122, pl. vi, figs. 19, 21.
Petronievics, B. 1921 A, 102, 195.
Pilgrim, G. E. 1913 A, 273.
Pocock, R. I. 1902 A, 304.
1906 A, 377 ("horse").
Pouchet and Chabry 1884 A, 163 ("cheval").
Preiswerk, G. 1895 A, 436, fig. 5.
Pugh, D. 1904 A, 3 ("horse").
Reche, O. 1905 A.
Regnault, F. 1903 A, 108, 110 ("cheval").
Rehs, J. 1914 A, 46.
Reichenau, W. 1915 A.
Reichert, K. B. 1849 A, 474 ("pferde").
Reinhardt, R. 1908 A, figs. 1-13 ("pferde").
Retterer, E. 1884 A, 497 ("cheval").
1908 B, 536 ("cheval").
1919 C, 620 ("cheval").
1919 E, 1223 ("cheval").
Retterer and Lelièvre 1910 B, 986 ("cheval").
Retzius, A. 1837 A, 491, pl. xxii, fig. 3.
1849 A, 662.
Reynolds, S. H. 1897 A, 430, 471, 501, 507, 524, figs. 82, 110.
Ridgeway, W. 1902 A, 187.
Rogenhofer, A. 1908 A, (42).
Rosenberg, A. 1873 A, 132 ("pferd").
Roth, S. 1908 A, 141.
Rudolf, G. de M. 1922 A, 140, figs. 5-7.
Rutten, L. M. R. 1909 A, 51.
Sanson, A. 1868 A, 225, figs. 1-10.
Scharff, R. F. 1911 A, 80, 81, 146.
Schlesinger, G. 1914 A, 211, figs. 1, 7, 8.
Schlosser, M. 1897 B, 18 ("pferd").
1900 C, 134 ("pferd").
1902 J, 208.
1903 I, 85, 182.
Schmidt, O. 1886 A, 209, 213, figs. 37, 38.
Schuchert, C. 1910 A, 599.
Schuchert and Levene 1927 A, 343, 347.
Schumann, A. 1904 A, 283.
Schwarz, E. 1912 A.
1922 A, 150.
1922 B, 132 ("pferde").
Scott, W. B. 1896 D, 48, 53 ("horse").
1913 A, 295, 305, 680, fig. 154.
1917 A, 176.
1924 A, 438 ("horses").
Seeley, H. G. 1876 C, 158 ("horse").
1878 A, 224.
Sefve, I. 1910 A.
1912 A, 137.
1913 A, 363, 366.
1927 A, 78.
Sellards, E. H. 1915 C, 8.
Shimek, B. 1908 A, 923.
Shufeldt, R. W. 1889 D, 12.
Shumard, B. F. 1863 A, 141.
Sisson, S. 1910 A, 31, figs. 5-7 ("horse").
Skoda, K. 1912 A, 417-434, 5 text-figs. ("pferde").
Smith and Packard 1919 A, 102, 104 ("horses").
Soergel, W. 1911 A, 740.
Spencer, J. W. 1898 A, 28 ("horse").
Steele, L. L. 1906 A, 290, figs. 1, 2.
Stehlin, H. G. 1905 A, 569, figs. 47, 51.
Steinmann, G. 1907 A, 491.
Stejneger, L. 1907 A, 469.
Stratz-Haag, C. H. 1906 A, 91 ("pferde").
Strecker, C. 1887 A, 315.
Stremme, A. 1911 A, 88.
Taschenberg, O. 1899 A, 4546.
Taylor, W. P. 1917 A, 272.
Terra, P. 1911 A, 309, figs.
Thorpe, M. R. 1927 A, 168.
Tichomirow, A. 1902 A, 344.
Tornier, G. 1888 A, 300 ("pferde").
Tourneux, F. and J. P. 1912 A, 82, figs. 17, 18 ("cheval").
Trouessart, E. L. 1892 A, 188.
1905 A, 642.
1913 A, 725.
Turner, H. N. 1850 B, 105 ("horse").
Underhill, B. M. 1907 A, 117, 121, fig. 1.
1910 A, 79.
Upham, W. 1902 A, 149 ("horse").
1903 C, 22679 ("horse").
Van de Pas, L. 1909 A, 149.
Veith, A. 1912 A, 1.
Villada, M. M. 1903 A, 441, 444.
Virchow, H. 1907 A, 49 ("zebra").
1910 F, 266, fig. 2 ("pferd").
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, I, 493.
Wallisch, W. 1906 A, 310 ("pferd").
Weber, M. 1904 A, 613.
Weber and Abel 1928 A, 415, 633, 638, 654, 682, figs. 258, 429, 430, 435, 438.
Weber and Burlet 1927 A, figs. 49, 73, 114, 190.
Wilder, B. 1865 A, 53 ("horse").
1872 B, 320.
Williston, S. W. 1905 F, 346.
Wilson, T. 1901 A, 311 ("cheval").
Winchell, N. H. 1903 A, 152.
1917 A, 133, 134.
Wincza, H. 1890 A, 650, pl. xxiv ("pferd").
Woodward, A. S. 1898 D, 333.
Wright, G. F. 1911 A, 282 ("horse").
1911 B, 436, 438, 690 ("horse").
Wright, R. R. 1883 A, 251.
Wüst, E. 1901 A, 281.
Ziegler, H. E. 1924 A, lx ("pferd").
Zietzschmann, O. 1915 A, 371, pls. xvi, xvii.
1917 A, 440, pl. xxv.
Zittel, K. A. 1897 A, 126 ("pferde").

Zittel and Schlosser 1911 A, 462.
1923 A 541, 549, 550, 680, 681, figs. 670, 671, 684.

Equus barcenæi Cope.

Cope, E. D. 1884 G, 10, 15.
Hay, O. P. 1902 A, 624 (E. tau, in part).
Felix and Lenk 1891 A, 136, pl. xxx, fig. 6.
Freudenberg, W. 1921 A, 139 (Syn. of E. tau).
Hay, O. P. 1924 D, 4, 131, 132.
Rath, G. 1886 A, 106.
Trouessart, E. L. 1905 A, 643 (Syn. of E. tau).
Villada, M. M. 1903 A, 446 (E. barcenæi).
Pleistocene; Mexico.

Equus bautistensis Frick.

Frick, C. 1921 A, 302, pl. xlv, fold. i, figs. 1-3; text-figs. 19-25.
Hay, O. P. 1925 D, 241 (E. baudistensis).
1927 D, 68, 162.
Stock, C. 1925 A, 119.
Pleistocene (Bautista); California.

Equus caballus Linnæus.

Hay, O. P. 1902 A, 622.
Anderson, R. J. 1909 A, 745.
Chubb, S. H. 1912 A, 114, figs. 1, 2.
Duerst, J. U. 1908 A, 384.
Ewart, J. C. 1904 A, 591 (E. c. prjevalskii); 592 (E. c. celticus); 595 (E. c. typicus).
Gidley, J. W. 1900 A, 111, figs. 4, 5.
1901 A, 98, seq., pl. xix, fig. C; text-figs. 4, 5, 6, 26.
1903 B, 474, 476.
Gray, J. E. 1869 A, 263.
Hay, O. P. 1914 A, 152, 185, 186, 193, 194, text-figs. 43, 45-47.
1915 A, 528, 531, 550, 559, 566.
Leidy, J. 1880 A, 348.
1880 B, 257.
Lull, R. S. 1907 A, 181, fig. 16.
Lydekker, R. 1912 A, figs.
Matthew, W. D. 1914 F, 661.
Merriam, J. C. 1913 F, 402, 412.
Nehring, A. 1883 A, 31.
1884 A, 81, seq.
Osborn, H. F. 1902 A, 84, fig. 3.
1907 C, 259, figs. 1-3.
1910 B, 614.
Schwarz, E. 1922 D.
Scott, W. B. 1913 A, 199.
Sellards, E. H. 1915 D, 77 (This species?).
Stejneger, L. 1907 A, 470.
Troxell, E. L. 1915 A, 617, fig. 3.
Tscherski, J. D. 1892 A, 94, seq.
Williston, S. W. 1910 G, 595.
Equus caballus has not been certainly identified as a fossil in North America.

Equus calobatus Troxell.

Troxell, E. L. 1915 A, 615, 619, figs. 3, 4, 5 [E. (Asinus)].
Abel, O. 1926 B, 433 (Syn.? of E. semiplicatus).
Antonius, O. 1919 A, 280 (Syn.? of E. semplicatus).
1923 A, (32).
Freudenberg, W. 1922 A, 5 (Asinus).
Hay, O. P. 1924 D, 124, 239.
1928 C, 425, 426.
Joleaud, L. 1920 C, 92.
Zittel and Schlosser 1923 A, 549.
Pleistocene (Sheridan); Texas, Mexico.

Equus complicatus Leidy.

Hay, O. P. 1902 A, 622.
Abel, O. 1919 A, 864 (Neohippus).
Allen, G. M. 1926 A, 453.
Antonius, O. 1919 A, 279 [E. (Neohippus)].
Bain, H. F. 1896 A, 277 (E. major).
Baker, F. C. 1920 A, 458 (E. complicatus, E. major).
Boule and Thevenin 1920 A, 142.
Broadhead, G. C. 1874 A, 157 ("extinct horse").
Cahn, A. R. 1922 A, 23.
Calvin, S. 1909 A, 137.
1909 B, 342, 347, 355, pls. xix-xxi.
1911 A. 210.
Chamberlin, R. T. 1916 A, 35 ("horse").
Chamberlin, T. C. 1894 A, 759.
1919 A, 316.
Cooper, Smith and Dekay 1831 A, 371 ("horse").
Cope, E. D. 1867 F, 138 ("horse").
1869 M, 250, fig. 55 (E. fraternus).
1878 II, 125 (E. major).
1895 G, 599 (E. major).
Dall, W. H. 1896 A, 854 (E. major).
Dall and Harris 1892 A, 264 (E. major. This species?).
Dawson, J. W. 1894 D, 4 (E. major. This species?).
Deeley, R M. 1913 A, 14, tab. ("Equus").
Deussen, A. 1924 A, 20, 108.
Dumble, E T. 1894 A, 564 (E. major).
Ewart, J. C. 1904 A, 590.
1907 A, 555-587, pls. i-iii.
Falconer, H. 1863 A, 61 (E. americanus); 64 (E. complicatus).
Foster, J. W. 1869 A, 254 (E. americanus).
1873 A, 59 ("horse"); 90 (E. major).
Frech and Geinitz 1903 A, 35, 36 (E. major).
Freudenberg, W. 1921 A, 139.
1922 A, 5, 10, 25 (E. complicatus, E. major).
Frick, C. 1921 A, 289.
Gervais, P. 1859 A, 365 (E. americanus, E. curvidens).
Gidley, J. W. 1901 A, 95, 109, 139, pl. xviii, fig. B; text-figs. 2, 3, 7, 8.
1903 C, 623.
1911 A, 436 (E. complicatus?).
1927 E, 274.
Gilbert, G. K. 1890 A, 394.
Gregory, W. K. 1917 D, 633, fig. 1.
Harris, G. D. 1899 A, 20, 38 (E. major).
Haug, E. 1911 A, 1886.
Haworth and Beede 1897 A, 290 (E. major).
Hay, O. P. 1909 G, 891.
1912 D, 586, text-figs. 34, 35.
1913 B, 584.
1914 A, 26, 157, pl. ix, figs. 5, 6; pl. x, figs. 1-3, 5, 6; pls. xi, xii; pl. xiii, figs. 1, 2; pl. xiv, figs. 1, 2; text-figs. 49-65.
1916 E, 54.
1917 D, 43, pl. ii, fig. 1.

Hay, O. P. 1917 F, 439.
1918 B, 10, seq.
1919 D, 363, 369, 372.
1920 B, 97, 118, pl. vii, fig. 1.
1923 A, 484.
1924 D, 377 (E. complicatus, E. major, E. intermedius).
1925 C, 28.
1926 C, 2.
1926 E, 391 ("horse").
1927 D, 301, 305.
1928 B, 237.
1928 C, 425, 428.
Hayes, S. 1895 B, 40 (E. fraternus).
Hayes and Kennedy 1903 A, 20 ("Equus").
Hilgard, E. W. 1860 A, 196 ("fossil horse." This species?).
Holmes, W. H. 1903 A, 244 ("horse").
Hrdlička, A. 1907 A, 17 ("Equus"); 18 (E. major).
Le Conte, J. 1882 A, 922 (E. major). This species?
1882 B, 3 (E. major).
Lee, W. T. 1907 B, 215.
Leidy, J. 1859 J, 181 ("horse").
Loomis, F. B. 1924 C, 506.
1926 A, 161, fig. 34.
Lucas, F. A. 1902 B, 258.
Lull, R. S. 1921 B, 159 (E. scotti).
Lyell, C. 1845 B, II, 56 ("horse").
McAdams, W. 1883 A, lxxx ("fossil horse." This species?).
McGee, W J 1891 A, 495.
Manigault, G. E. 1887 A, 130 ("fossil horse").
Matson and Clapp 1909 A, 137 (E. major).
Matthew, W. D. 1902 F, 318.
1926 C, 151, fig. 8.
Mercer, H. C. 1894 C ("horse").
1897 A, 444 ("horse").
Merriam, C. H. 1884 A, 47 (E. major. This species?).
Merriam, J. C. 1912 C, 221 (E. americanus).
Murchison, R. I. 1843 B, 132 ("horse").
Osborn, H. F. 1904 R, 12.
1910 B, 456, 478, 484, 485.
1915 B, 220, fig. 8.
Owen, R. 1846 A, 93 ("horse").
Pavlow, M. 1906 A, 201 (E. intermedius).
1925 A, 318 (Neohippus).
Peabody, C. 1908 A, 12 (This species?).
Rhoads, S. N. 1903 A, 237.
Richardson, G. B. 1907 A, 32.
1909 A, 44.
Schmidt, E. 1872 A, 245, 251 (E. major).
Scott, W. B. 1913 A, 200.
Sellards, E. H. 1915 D, 77 (E. caballus); 110, figs. 40-43 (E. complicatus).
1916 B, 105.
1916 C, 149, 158.
1916 D, 617.
1916 E, 16.
1916 F, 9.
Shaler, N. S. 1877 A, 197 ("horse").
Shimek, B. 1902 A, 285 (E. americanus).
1904 A, 305 (E. americanus).
1910 A, 128, 130, 136.
1910 B, 316-322.
Silliman, B. Sr. 1831 A, 372 ("horse").
Soergel, W. 1911 A, 745 (This species?).
Spier, L. 1928 A, 161 ("horse").
Todd, J. E. 1900 A, 100 (E. major).
Trouessart, E. L. 1905 A, 642.
Tuomey, M. 1848 A, 165, 166 ("Equus").
Upham, W. 1895 B, 282.
Usher, W. 1854 A, 349 ("horse").
Veatch, A. C. 1899 A, 245 (E. major); 246 (E. intermedius).
Wilder, F. A. 1900 A, 117 (E. major).
Wilson, T. 1892 A, 629 (E. major).
1901 A, 322 (E. major).
Woolman, L. 1897 A, 208, pl. x.
Zittel and Schlosser 1923 A, 549, 680.

Equus conversidens Owen.

Hay, O. P. 1902 A, 623.
Ameghino, F. 1897 B, 264.
Antonius, O. 1919 A, 280.
Boule and Thevenin 1920 A, 142.
Freudenberg, W. 1921 A, 139.
1922 A, 5.
Gidley, J. W. 1901 A, 107, 118, 139, pl. xxi.
Osborn, H. F. 1905 E, 931.
1910 B, 484.
Trouessart, E. L. 1905 A, 643.
Veith, A. 1912 A, 14.
Pleistocene; Mexico.

Equus crenidens Cope.

Hay, O. P. 1902 A, 623.
Boule and Thevenin 1920 A, 142, 143.
Felix and Lenk 1891 A, 134.
Freudenberg, W. 1921 A, 139.
1922 A, 5.
Gidley, J. W. 1901 A, 107, 122, 138.
Hay, O. P. 1924 D, 377.
Rath, G. 1886 A, 106.
Trouessart, E. L. 1905 A, 643.
Villada, M. M. 1903 A, 444.
Pleistocene; Mexico.

Equus excelsus Leidy.

Hay, O. P. 1902 A, 623.
Baker, F. C. 1920 A, 458.
Boule and Thevenin 1920 A, 142.
Dall and Harris 1892 A, 286.
Deussen, A. 1924 A, 110, 116, pl. xxviii, fig. 2.
Dumble, E. T. 1894 A, 564.
Felix and Lenk 1891 A, 126, 127, 128, 135, pl. xxx, fig. 7.
Frech and Geinitz 1903 A, 35 (E. excelsior).
Freudenberg, W. 1922 A, 5.
Gidley, J. W. 1901 A, 107, 113, 138, text-fig. 9.
1903 C, 623.
Haug, E. 1911 A, 1886.
Hay, O. P. 1913 B, 592, pl. lxxi, fig. 3; text-fig. 28.
1914 A, 186, 190, pl. xiv, fig. 6; text-figs. 71-74.
1917 D, 46.
1920 B, 119.
1923 A, 8.
1924 D, 377.
1927 D, 305.
1928 C, 425, 426.

Holmes, W. H. 1903 A, 244 ("horse").
Leidy, J. 1880 B, 256.
Lindgren, W. 1898 A, 628 (This species?).
1911 A, 51, 212 (This species?).
Lindgren and Drake 1904 A, 3 (This species?).
Loomis, F. B. 1926 A, fig. 34.
Louderback, G. D. 1924 A, 7.
Lucas, F. A. 1904 F, 3 (E. excelsis. This species?).
Lull, R. S. 1913 A, 3.
Martin, H. T. 1924 A, 274 (This species?).
Matthew, W. D. 1918 A, 227.
Merriam, J. C. 1913 F, 410, 415.
1917 A, 432 (This species?).
Merrill, G. P. 1907 A, 36.
Osborn, H. F. 1904 R, 12.
1905 E, 931 (This species?).
1909 D, 83, 84.
1910 B, 368.
1915 B, 220, fig. 8.
1918 A, 31, 32.
Pavlow, M. 1906 A, 201.
Rath, G. 1886 A, 106.
Reche, O. 1905 A, 236, 239.
Shimek, B. 1910 B, 320.
Trouessart, E. L. 1905 A, 643.
Pleistocene (Sheridan); Nebraska, Iowa, Texas?: (Idaho); Idaho, Mexico.

Equus francisci Hay.

Hay, O. P. 1915 A, 535, 566, pls. xxxv-xxxvii; text-figs. 4, 5.
1917 F, 439.
1924 D, 377.
Deussen, A. 1924 A, 20, 108.
Loomis, F. B. 1926 A, 160, fig. 36.
Pleistocene (Lissie); Texas.

Equus giganteus Gidley.

Hay, O. P. 1902 A, 623.
Antonius, O. 1919 A, 279, 294.
Boule and Thevenin 1920 A, 142.
Cope, E. D. 1887 N, 1072, fig. 42 (E. crenidens).
Deussen, A. 1924 A, 110 (E. crenidens).
Diener, C. 1912 A, 220.
Dumble, E. T. 1894 A, 564 (E. crenidens).
Freudenberg, W. 1921 A, 137, 139.
1922 A, 5.
Frick, C. 1921 A, 327.
Gidley, J. W. 1901 A, 107, 137, text-fig. 27.
Hay, O. P. 1920 B, 97 (This species?).
1921 A, 619, pl. cxviii, fig. 12; pl. cxxiv, figs. 2, 3 (This species?).
1922 A, 446 ("Equus." This species?).
1923 A, 484.
1924 D, 130, 133, 246.
1927 D, 305.
Loomis, F. B. 1926 A, 161, fig. 34.
Lull, R. S. 1907 A, 182.
Lydekker, R. 1912 A, 246.
Osborn, H. F. 1904 R, 12.
1905 I, 109.
1910 B, 484, 485.
1915 B, 220, fig. 8.
Scharff, R. F. 1911 A, 146.
Scott, W. B. 1913 A, 200, 295.
Trouessart, E. L. 1905 A, 643.
Pleistocene (Early and Middle); Texas, Maryland, Arizona, Mexico.

Equus hatcheri Hay.

Hay, O. P. 1915 A, 527, 531, 566, pls. xxxii-xxxiv; text-figs. 2, 3.
1917 F, 437.
1920 B, 119, pl. vii, fig. 2.
1924 D, 377.
1927 D, 137.
Gidley, J. W. 1926 C, 482, 483 (This species?).
Holmes, W. H. 1903 A, 244 ("horse").
Loomis, F. B. 1926 A, 163, fig. 35.
Pleistocene (Aftonian); Nebraska, Oklahoma.

Equus holmesi Hay.

Hay, O. P. 1920 B, 119, pl. vii, figs. 9-12.
1924 D, 377.
1927 D, 292.
Pleistocene (Aftonian); Oklahoma.

Equus idahoensis Merriam, J. C.

Merriam, J. C. 1918 A, 527, figs. 3-5.
Frick, C. 1921 A, 310.
Hay, O. P. 1923 A, 8.
1925 D, 241.
1927 D, 305.
Merriam, J. C. 1917 A, 432, 433 (No description).
Osborn, H. F. 1918 A, 31.
Pleistocene (Idaho); Idaho.

Equus jubatus Hay.

Hay, O. P. 1927 D, 292, pl. xii, figs. 3-5.
Pleistocene (Early); Texas.

Equus lambei Hay.

Hay, O. P. 1917 F, 435, pls. lvi-lviii.
Gilmore, C. W. 1918 B, 59 ("horse").
Hay, O. P. 1923 B, 101, pl. vii, figs. 1, 2.
1924 D, 154 ("horse").
1927 A, 6.
1927 D, 273.
Lambe, L. M. 1911 B, 271 ("horse").
Loomis, F. B. 1926 A, 164, fig. 36 (E. lambi).
Pleistocene; Klondike, Yukon, Alberta.

Equus laurentius Hay.

Hay, O. P. 1913 B, 584, pls. lxxii, lxxiii; text-figs. 25-27.
Antonius, O. 1919 A, 280 [E. (Neohippus)].
1923 A (32).
Baker, F. C. 1920 A, 458.
Hay, O. P. 1914 A, 26, 201, pl. xiii, fig. 8; pls. xvii, xviii; text-figs. 80-83.
1915 A, 566, 568 (This species?).
1917 F, 437.
1920 B, 119.
1922 A, 446.
1924 D, 377.
1927 A, 5.
1927 D, 305.
1928 C, 425, 426.
Holmes, W. H. 1903 A, 244 ("horse").
Merriam, J. C. 1913 F, 398, 402, 413, 418.

Osborn, H. F. 1915 B, 220, fig. 8.
Todd, J. E. 1918 A, 45 ("horse").
Zittel and Schlosser 1923 A, 549 (E. laurentinus).
Pleistocene (Aftonian); Nebraska, Kansas, Iowa, Oklahoma.

Equus leidyi Hay.

Hay, O. P. 1913 B, 572, text-figs. 7-16.
Abel, O. 1902 A, 623 (E. fraternus).
1919 A, 864 (Neohippus fraternus).
1926 B, 81, fig. 57 (Neohippus).
1928 B, 61.
Allen, G. M. 1926 A, 453.
Antonius, O. 1919 A, 279 [E. (Neohippus) fraternus]; 280 [E. (Neohippus) leidyi].
Baker, F. C. 1920 A, 458 (E. fraternus).
Balch, E. S. 1917 A, 481.
Boule and Thevenin 1920 A, 142 (E. fraternus).
Chamberlin, R. T. 1916 A, 35 ("horse").
Ewart, J. C. 1904 A, 590 (E. fraternus).
Falconer, H. 1863 A, 64 (E. fraternus).
Freudenberg, W. 1922 A, 5 (E. fraternus).
Frick, C. 1921 A, 289 (E. fraternus).
Gidley, J. W. 1901 A, 107, 110, 138, text-fig. 8 (E. fraternus).
1911 A, 346 (E. fraternus).
1915 D, 68 (E. fraternus).
1925 A, x ("horses").
1927 E, 274.
Hay, O. P. 1913 B, 569, pl. lxix, fig. 1; text-figs. 4-6 (E. fraternus).
1914 A, 26 (E. fraternus).
1917 D, 44, pl. ii, figs. 2-4; pl. iii, figs. 5, 6.
1918 B, 12.
1919 C, 106.
1919 D, 367, 369.
1920 B, 84, 87.
1923 A, 484.
1924 D, 377 (E. leidyi); 141, 142 (E. curvidens); 131, 132 (E. fraternus).
1925 D, 241 (E. fraternus).
1927 D, 305 (E. fraternus).
1928 C, 428.
Hrdlička, A. 1918 A, 27.
Loomis, F. B. 1925 C, 506 (E. complicatus).
1925 D, 436 ("horse").
1926 A, 162.
Lucas, F. A. 1901 J, 163 (E. fraternus).
1902 B, 259.
Lull, R. S. 1921 B, 175 (E. fraternus).
Lydekker, R. 1912 A, 246 (E. fraternus).
Lyell, C. 1855 A, I, 348 (E. curvidens).
MacCurdy, G. G. 1916 A, 61 (This species?).
Matson and Clapp 1909 A, 136, 137 (E. fraternus).
Matthew, W. D. 1902 F, 318 (E. fraternus).
1924 C, 166, 168 (E. fraternus).
Miller and Stephenson 1912 A, 57 (E. fraternus).
Osborn, H. F. 1910 B, 456, 470.
1915 B, 220, fig. 8.
1918 A, 31, 174 (E. fraternus).
Pavlow, M. W. 1925 A, 318 (Neohippus fraternus).
Rogers, H. D. 1844 A, 258 ("horse." This species?).
Schlosser, M. 1902 H, 142 (E. fraternus).
Scott, W. B. 1913 A, 199 (E. fraternus).
Sellards, E. H. 1913 A, pl. v, fig. 2 ("horse").
1915 D, 77.
1916 B, 102 (E. fraternus. This species?); 103, 104 (E. leidyi).
1916 C, 132, 139, 149, 158.
1916 D, 617.
1916 E, 16.
1916 F, 7, 9.
Shuler, E. W. 1923 A, 333 (E. fraternus?).
Simpson, G. G. 1928 H, 2 (This species?).
Spencer, J. W. 1895 A, 137 (E. fraternus).
Trouessart, E. L. 1905 A, 643 (E. fraternus).
Pleistocene (Early); Nebraska, Florida, Alabama, Mississippi, Texas, Pennsylvania, Kansas, Mexico.

Equus littoralis Hay.

Hay, O. P. 1913 B, 575, figs. 17, 18.
Allen, G. M. 1926 A, 453.
Antonius, O. 1919 A, 280 [E. (Neohippus?)].
Baker, F. C. 1920 A, 374.
Chamberlin, R. T. 1916 A, 35 ("horse").
Gidley, J. W. 1901 A, 121-122 (E. tau).
1927 E, 274.
Hay, O. P. 1917 E, 44 (This species?).
1920 B, 88.
1923 A, 484.
1924 D, 377.
1926 C, 2 (This species?).
1927 D, 274, 286.
Loomis, F. B. 1926 A, 162.
Merriam, J. C. 1917 A, 439.
Sellards, E. H. 1915 D, 77.
1916 B, 94.
1916 C, 149, 158.
1916 D, 617.
1916 E, 16.
1916 F, 9.
Pleistocene (Early); Florida, Tennessee.

Equus nevadanus Hay.

Hay, O. P. 1927 D, 57-59, 61, 152, pls. ii, iii.
Pleistocene (Early); Nevada.

Equus niobrarensis Hay.

Hay, O. P. 1913 B, 576, pl. lxix, figs. 2-4; pl. lxx; pl. lxxi, figs. 1, 2; text-figs. 19-24.
Antonius, O. 1919 A, 280 [E. (Neohippus?)].
1923 A (34).
Baker, F. C. 1920 A, 458.
Frick, C. 1921 A, 289, 311.
Hay, O. P. 1913 E, 3, fig. 2.
1914 A, 26, 191, 198, pl. x, figs. 2-4; pl. xiv, figs. 3-5; pls. xv, xvi; text-figs. 75-79.
1915 A, 528, 531, 566.
1917 F, 437.
1921 A, 609 (This species?).
1923 A, 190, 354.
1924 D, 377.
1927 A, 6.
1927 D, 305.
1928 C, 425, 426.
Loomis, F. B. 1926 A, 164, fig. 35.
Matthew, W. D. 1918 A, 227, 228.
Merriam, J. C. 1913 F, 398, 402, 410, 413, 416

Osborn, H. F. 1915 B, 220, fig. 8.
1918 A, 7, 8, figs. 4, 4*a*.
Sefve, I. 1927 A, 8, text-figs. 4, 5.
Sternberg, C. H. 1898 B, 169 (E. excelsus).
Pleistocene (Aftonian); Nebraska, Iowa, Missouri, Kansas.

Equus niobrarensis alaskæ Hay.

Hay, O. P. 1913 E, 1, pls. i, ii.
1917 F, 439.
Merriam, J. C. 1913 F, 398.
Pleistocene silts; Tofty, Alaska.

Equus occidentalis Leidy.

Hay, O. P. 1902 A, 623.
Abel, O. 1919 A, 864 (Neohippus).
1926 B, 238.
Antevs, E. 1925 A, 75 (This species?).
Antonius, O. 1919 A, 279 (Neohippus).
Baker, F. C. 1920 A, 210, 213, 395.
Boule and Thevenin 1920 A, 141.
Bryan, K. 1923 A, 32.
Calvin, S. 1909 A, 137 (E. occidentalis; later referred to E. complicatus).
Clayton, J. E. 1864 A, 171 ("horse." This species?).
Cooper, J. G. 1875 A, 390.
Cope, E. D. 1878 II, 125.
1895 G, 599.
Denton, W. 1875 A, 186 ("horse." This species?).
Deussen, A. 1924 A, 110.
Diller, J. S. 1906 A, 11 ("horse").
Dumble, E. T. 1894 A, 564 (This species?).
Ewart, J. C. 1904 A, 590.
Frick, C. 1921 A, 308.
Furlong, E. L. 1904 A, 54.
1906 A, 243.
1907 A, 393.
Gidley, J. W. 1901 A, 107, 114, 139, text-fig. 10.
1923 B, 30 (This species?).
Gilbert, J. Z. 1910 B, 25 ("horse").
Hanna, G. D. 1923 A, 65, pl. ix, fig. *c*.
Haug, E. 1911 A, 1886.
Hay, O. P. 1920 B, 121.
1921 A, 618, pl. cxviii, fig. 11; pl. cxxiv, fig. 1 (This species?).
1922 A, 446.
1923 A, 9.
1924 D, 377.
1925 D, 241.
1926 D, 359.
1926 F, 426 ("Equus").
1927 D, 301, 302, 305.
Hoffmann, R. 1927 A, 155 (This species?).
Holmes, W. H. 1901 A, 423 ("horse." This species?).
Kellogg, R. 1922 A, 61.
Knowlton, F. H. 1911 D, 63 ("horse").
Le Conte, J. 1882 B, 3.
1883 A, 101 (This species?).
Leidy, J. 1880 B, 256.
Lindgren, W. 1911 A, 51.
Loomis, F. B. 1926 A, 16, 158, pl. iii.
Louderback, G. D. 1907 A, 212 ("horse").
McCornack, E. C. 1920 A, 17, 23.
Matthew, W. D. 1914 I, 41.
Merriam, J. C. 1908 D, 473 ("horse").
1909 C, 11, fig. ("colt").
1913 F, 399, 402, 410, figs. 1-14.
1914 B, 201 ("horse." This species?).
1916 B, 528, figs. 16, 18.
1918 A, 528, 530.
1918 D, 518.
Merriam and Buwalda 1917 A, 259.
Merriam and Stock 1921 A, 567.
1925 A, 10, 11.
Miller, L. H. 1912 A, 71, 73, 74.
Osborn, H. F. 1910 B, 460, 477, 484.
1915 B, 220, fig. 8.
1925 D, 528, 531, 535, figs.
Reche, O. 1905 A, 239.
Scott, W. B. 1913 A, 200.
Sinclair, W. J. 1903 A, 711.
1904 A, 18.
1908 A, 112.
Stock, C. 1925 A, 113, 118.
1927 A, 156 (This species?).
Trouessart, E. L. 1905 A, 643.
Villada, M. M. 1903 A, 445, pl. ii (This species?).
Wright, R. R. 1883 A, 234, fig. 121.
Zittel and Schlosser 1923 A, 549.
Pleistocene; western States of the United States, Mexico?

Equus pacificus Leidy.

Hay, O. P. 1902 A, 623.
Antevs, E. 1925 A, 75 (This species?).
Antonius, O. 1919 A, 279, 294.
Boule and Thevenin 1920 A, 142.
Calvin, S. 1909 B, 355.
1911 A, 210.
Diller, J. S. 1906 A, 11 ("horse").
Frick, C. 1921 A, 308.
Gidley, J. W. 1901 A, 107, 116, 138, text-fig. 11.
1926 C, 481, 482 (This species?).
Haug, E. 1911 A, 1886.
Hay, O. P. 1923 E, 395 ("horses." This species?).
1926 D, 359.
1927 D, 302, 305, 310.
Hodge, E. T. 1925 A, x ("horse").
Jones, J. C. 1925 A, 49 (This species?).
Knowlton, F. H. 1911 D, 63 ("horse").
Lawson, A. 1914 A, 15.
Le Conte, J. 1882 B, 3.
1883 A, 101 (This species?).
Leidy, J. 1880 B, 257.
Loomis, F. B. 1926 A, 159, fig. 34.
McCornack, E. C. 1920 A, 17, 23.
Matthew, W. D. 1902 F, 320.
Merriam, J. C. 1913 F, 410, 414.
1914 D, 15.
1915 C, 379, 381, pl. xli; text-fig. 3 (This species?).
1918 A, 530.
1918 D, 520.
Merriam and Stock 1925 A, 10.
Miller, L. H. 1912 A, 71, 81 (This species?).
Osborn, H. F. 1904 R, 12.
1910 B, 614 (This species?).
1915 B, 220, fig. 8.
Russell, I. C. 1884 A, 460 ("horse").

Scott, W. B. 1913 A, 201.
Shimek, B. 1911 A, 318.
Sinclair, J. 1904 A, 18, 20.
Smith and Packard 1919 A, 103.
Stock, C. 1925 A, 113, 195.
Trouessart, E. L. 1905 A, 643.
Pleistocene (Early); Oregon, California, Nevada?

Equus pectinatus Cope.

Hay, O. P. 1902 A, 624.
Abel, O. 1919 A, 864 (Neohippus).
Antonius, O. 1919 A, 279, 294 [E. (Neohippus)].
Baker, F. C. 1920 A, 208, 213, 395.
Boule and Thevenin 1920 A, 142.
Freudenberg, W. 1922 A, 5.
Gidley, J. W. 1901 A, 107, 133, 139, text-fig. 23.
Haug, E. 1911 A, 1886.
Hay, O. P. 1923 A, 484.
1924 D, 377.
1925 D, 241.
1927 D, 162, 293, 295.
Loomis, F. B. 1926 A, fig. 34.
Osborn, H. F. 1904 R, 12.
1910 B, 470, 484.
1915 B, 220, fig. 8.
Pavlow, M. W. 1925 A, 318 (Neohippus).
Rhoads, S. N. 1903 A, 237.
Scott, W. B. 1913 A, 200.
Trouessart, E. L. 1905 A, 643.
Pleistocene (Early, Middle); Pennsylvania, Illinois, Mexico.

Equus princeps (Leidy).

Hay, O. P. 1902 A, 622 (E. complicatus, in part).
Abel, O. 1928 B, 79, 88, fig. 46 (Hipparion, Neohipparion fraternus).
Gidley, J. W. 1907 A, 875, 910 (Neohipparion).
Hay, O. P. 1923 A, 199.
Matson and Clapp 1909 A, 137 (Hippotherium).
Matthew, W. D. 1909 C, 117 (Neohipparion).
1924 C, 166 (Neohipparion); 168 (Hipparion).
Merrill, G. P. 1907 A, 41 (Hippotherium).
Osborn, H. F. 1918 A, 201, figs. 166, 166*a* (Equus, Hipparion).
Sellards, E. H. 1916 B, 94, 97 (Hipparion).
Trouessart, E. L. 1905 A, 642 (Syn. of E. complicatus).

The type of this species is a tooth which may be an abnormal one of *Equus leidyi*.

Pleistocene; Florida.

Equus scotti Gidley.

Gidley, J. W. 1900 A, 111, figs. 1-3, 5*a*.
Hay, O. P. 1902 A, 624.
Abel, O. 1912 F, 19.
1928 B, 77, 93, fig. 45.
Anonymous 1908 B, 122.
Antonius, O. 1919 A, 279.
1923 A, (32).
Baker, F. C. 1920 A, 458.
Boule and Thevenin 1920 A, 141.
Brown, B. 1908 A, 200.
Calvin, S. 1909 B, 346, 355, pls. xvii, xviii.
1911 A, 210, 211.
Eastman, C. R. 1913 B, 677.
Ewart, J. C. 1907 A, 562, 564.
Freudenberg, W. 1922 A, 5 (Syn.? of E. crenidens).
Frick, C. 1921 A, 308.
Gidley, J. W. 1901 A, 103, 134, 139, pl. xx; text-figs. 25, 26.
1903 C, 618, 624.
1926 C, 482, 483.
1927 D, 266, fig.
1928 B, 14 (This species?).
Gregory, W. K. 1908 A, 122.
1912 F, 286.
Haug, E. 1911 A, 1886.
Hay, O. P. 1912 D, 582, text-figs. 29, 30*a*.
1913 B, 584.
1914 A, 26, 32, 79, text-figs. 66-70.
1915 A, 566.
1917 F, 439.
1923 A, 194.
1924 D, 377.
1925 D, 241.
1927 D, 162.
1928 C, 425.
Lambe, L. M. 1917 E, 291.
Loomis, F. B. 1926 A, 153-158, pl. xiv, fig. 33.
Lull, R. S. 1913 A, 8, fig.
1917 B, 619, pl. xxiv; text-fig. 227.
Matthew, W. D. 1902 F, 318 (This species?).
1903 A, 7, pl. ii.
1908 I, 122.
1914 G, 234.
1915 K, 454, fig. 29.
1916 J, 2.
Merriam, J. C. 1915 F, 398, 410, 413, 416.
Osborn, H. F. 1901 A, pl. i.
1904 F, 32.
1904 O, 156.
1905 J, 282.
1910 B, 614.
Reche, O. 1905 A, 236.
Shimek, B. 1910 A, 130, 136, 139.
1910 B, 316-322.
1912 A, 142 (This species?).
Trouessart, E. L. 1905 A, 643.
Troxell, E. L. 1915 A, 615, 616, pl. ix; text-figs. 2-5.
1916 A, 340.
1917 A, 81, figs. 1-6.
Zittel and Schlosser 1911 A, 463.
1923 A, 549.
Pleistocene (Aftonian); Texas.

Equus semiplicatus Cope.

Hay, O. P. 1902 A, 624.
Abel, O. 1926 B, 433.
Antonius, O. 1919 A, 279 [E. (Neohippus?)].
1923 A, (32).
Boule and Thevenin 1920 A, 142.
Deussen, A. 1924 A, 110.
Dumble, E. T. 1894 A, 564.
Freudenberg, W. 1921 A, 139 (This species?).
Gidley, J. W. 1901 A, 107, 129, 139, text-figs. 20, 21.
1903 C, 623.
1924 A, 70 (E. occidentalis?).
Hay, O. P. 1923 B, 116.

Hay, O. P. 1924 D, 377.
1927 D, 297.
1928 C, 425, 426.
James, J. F. 1891 B, 161 (E. excelsus).
Matthew, W. D. 1903 A, 25, pl. vii (E. intermedius).
Montgomery, J. H. 1904 A, 58.
Osborn, H. F. 1910 B, 484.
1915 B, 220, fig. 8.
Scott, W. B. 1913 A, 200.
Trouessart, E. L. 1905 A, 643.
Pleistocene (Early); Texas, Mexico?

Equus tau Owen.

Hay, O. P. 1902 A, 624.
Ameghino, F. 1897 B, 264.
Cope, E. D. 1895 G, 599.
Deussen, A. 1924 A, 110 (This species?).
Diener, C. 1912 A, 220.
Dumble, E. T. 1894 A, 564 (This species?).
Ewart, J. C. 1904 A, 590.
Felix and Lenk 1891 A, 135.
Freudenberg, W. 1921 A, 139.
1922 A, 5 (Syn. of E. barcenai).
Gidley, J. W. 1901 A, 107, 120, 123, 139, fig. 12.
1903 C, 623.
1911 A, 436 (This species?).
Hay, O. P. 1915 A, 539.
1924 D, 377.
1926 C, 2 (This species?).
1927 D, 54, 130.
1928 C, 425 (This species?).
Osborn, H. F. 1905 E, 931.
Trouessart, E. L. 1905 A, 643.
Villada, M. M. 1903 A, 445.
Wilkens, M. 1884 B, 329 (="E. asinus fossilis").
Zittel and Schlosser 1923 A, 549.
Pleistocene (Early); Mexico, Texas?.

Equus sp. indet.

Adams, A. Leith 1879 A, 117 ("horse").
Anderson, F. M. 1908 A, 35 ("horse"). Pleistocene; California.
Antevs, E. 1925 A, 75 ("horse"). Pleistocene (Walker River); Nevada.
Bailey, T. L. 1926 A, 59 (E. fraternus?). Pleistocene (Reynosa); Texas.
Baker, C. L. 1915 A, 34 ("horse"). Pleistocene; Texas.
Bancroft, H. H. 1875 A, 677 ("horses"). Pleistocene; California.
Barbour, E. H. 1927 A, 133. Pleistocene (Early); Nebraska.
Becker, G. F. 1888 A, 221 (This genus?). Pleistocene (Cache Lake); California.
Bell, R. 1898 A, 373 ("horse").
Blake, W. P. 1884 A, 273. Pleistocene; Nevada.
Broadhead, G. C. 1881 A, 521 ("horse").
Brown, B. 1912 C, 167. Pleistocene (Jalisco); Mexico.
Bryan, K. 1923 A, 31. Pleistocene; Ligurta, Arizona.
Buwalda, J. P. 1914 A, 451 (2 species). Pleistocene (Manix); California.
Calvin, S. 1911 A, 211, pl. xix, figs. 1-4. Pleistocene; Iowa.
Cannon, G. L. 1888 B, 61 ("horse"). Pleistocene; Colorado.
Cobb, C. 1923 A, 31. Pleistocene (Early); Enfield, North Carolina.
Collier, A. J. 1902 A, 27. Pleistocene; Alaska.
1918 A, 35. Pleistocene (Early); Montana.
Condon, T. 1902 A, 141, pl. xxiii. Pleistocene; Touchet, Oregon.
1910 A, 175, pl. xxiii. Pleistocene; Touchet, Oregon.
Conrad, T. A. 1838 A, x ("horse").
Cook, H. J. 1925 A, 460. Pleistocene; Texas.
1926 D, 335, 2 sp. Pleistocene; Colorado, Texas.
1927 A, 117. Pleistocene (Aftonian); Oklahoma.
Cooke, C. W. 1926 A, 445 ("horse"). Florida.
1928 A, 421. Florida.
Cragin, F. W. 1899 A, 610 ("horse").
1900 A, 23 ("horse").
Cummins, W. F. 1893 A, 182, 183 ("Equus"). Pleistocene; Texas.
Dumble, E. T. 1920 A, 268. Pleistocene (Early); Texas.
Eaton, G. F. 1923 A, 236, figs. 7, 8. Pleistocene; Mexico.
Ferguson, H. G. 1917 A, 182. Pleistocene; Nevada.
Freudenberg, W. 1910 A, 5. Pleistocene (Early); Mexico.
1922 A, 5, 26, 28. Pleistocene (Early); Mexico.
Frick, C. 1918 A, 163. Pleistocene (Bautista Creek); California.
Furlong, E. L. 1925 A, 139, 140, 142, 144. Pleistocene; Tequixquiac, Hidalgo: Zumpango, Guerrero: Saltillo; Coahuila: Monterey; Nuevo Leon: Mexico.
Gaudry, A. 1903 A, 553 ("cheval").
Gidley, J. W. 1913 B, 96. Pleistocene; Maryland.
1915 D, 20 ("Equus") Florida.
1917 C, 182. Pleistocene; Nevada.
1918 C, 182. Pleistocene (Early); Montana.
1920 B, 283 ("horse"). Pleistocene (Middle); Maryland.
1922 B, 120, 121. Pliocene? (San Pedro Valley); Arizona.
1923 D, 75. Pleistocene (Gila conglomerate); Arizona.
1924 A, 69. Pleistocene (Early); Nevada.
1926 C, 483. Pleistocene (Early); Arizona.
1928 B, 13, 16, fig. 13 ("horse"). Pleistocene; Oklahoma, Florida.
Gilbert, G. K. 1875 A, 543. Pleistocene?; New Mexico.
1890 A, 303, 394 ("Equus").
Gilmore, C. W. 1908 A, 31, 38 (Pleistocene); Alaska.
Gordon, C. H. 1913 A, 31 ("Equus"). Knox County, Texas.
Gregory, H. E. 1917 A, 82 ("Equus"). Pleistocene; Arizona.
Hartnagel and Bishop 1921 A, 81, 94 ("horse"). Recent?; New York.

Hay, O. P. 1917 B, 15. Pleistocene; Texas.
  1920 B, 110. Pleistocene; Illinois.
  1921 A, 600. Pleistocene (Early); Colorado.
  1923 A, 484.
  1924 B, 260, 262 ("Equus"). Pleistocene; Florida.
  1924 D, 377. Pleistocene; Alberta, Arkansas, Colorado, Iowa, Kansas, Manitoba, Missouri, Montana, Nebraska, New Mexico, South Dakota, Texas, Wyoming.
  1926 G, 131 ("large horse").
  1927 D, 301, 302, 305, 314.
  1928 C, 423.

Haynes, H. W. 1889 A, 353. Pleistocene, Nevada.

Hills, R. C. 1889 A, 221. Pleistocene (Huerfano); Colorado.

Holmes, F. S. 1860 A, iii ("horse").

Hrdlička, A. 1918 A, 18. Pleistocene (La Brea); California.

Kellogg, R. 1922 A, 80. Pleistocene (San Pedro); California.

Koch, A. 1840 A, 3 ("antediluvian horse"). Pleistocene; Missouri.

Lambe, L. M. 1910 C, 273 (E. caballus).
  1912 B, 349 (E. caballus). Pleistocene; Yukon.
  1917 E, 295. Pleistocene; Yukon.

Lee, W. T. 1907 A, 32 ("Equus"). Pleistocene; New Mexico.

Lee, Stone and Gale 1915 A, 173 ("horse"). Pleistocene (Lake Lahontan); Nevada.

Leidy, J. 1868 D, 195 ("indigenous horse").

Leighton, M. M. 1921 A, 513. Pleistocene (Sangamon?); Illinois.

Lindgren, W. 1911 A, 193 ("horses," 2 species). Carson, Nevada.

Lindgren and Drake 1904 A, 2 ("Equus"). Pleistocene? (Idaho); Idaho.
  1904 B, 2 ("Equus"). Pleistocene (Idaho); Idaho.

Loomis, F. B. 1926 B, 262. Pleistocene; Florida.

Lucas, F. A. 1900, in Lindgren, W. 1900 A, 99 ("Equus").
  1900 H, 99. Pleistocene; Ada County, Idaho.
  1902 J, 27 (E. complicatus?). Pleistocene; Alaska.
  1904 B, 2 ("Equus"). Pleistocene? (Idaho); Idaho.
  1904 F, 2, 3. Pleistocene? (Idaho); Idaho.

McCornack, E. C. 1920 A, 16, 19. Pleistocene (Touchet River); Washington.

McGee, W J 1888 A, ("horse"). Pleistocene (Early); Nevada.
  1889 A, 303 ("horse"). Pleistocene (Lake Lahontan); Nevada.

Matthew, W. D. 1902 F, 321.
  1926 C, 164, fig. 22. Pleistocene (Lower); Nebraska.

Mercer, H. C. 1894 A, 98 ("horse"). Lenape stone.

Merriam, J. C. 1900 A, 613. Pleistocene; California.

Merriam, J. C. 1910 C, 50. Pleistocene? (Thousand Creek); Nevada.
  1911 B, 265, figs. 32, 36 (This genus?).
  1914 C, 644 (This genus?).
  1914 D, 15. Pleistocene (San Antonio); California.
  1915 E, 223, figs. 33-37 (Equus sp. or Pliohippus sp.). Pleistocene? (Etchegoin); California.
  1915 F, 261. ("Equus," 2 species). Pleistocene (Manix); California.
  1916 E, 172. Pleistocene? (Etchegoin); California.

Merriam and Buwalda 1917 A, 256 (Ringold); Washington.

Miller, L. H. 1912 A, 78, 81. Pleistocene (La Brea); California.
  1925 A, 309 ("horse"). Pleistocene (McKittrick); California.

Miller and Stephenson 1912 A, 50, 55 ("horse"). Pleistocene: North Carolina.

Mitchell, S. L. 1826 A, 7, 8. Pleistocene (Navesink Hills); New York.

Newberry, J. S. 1870 D, 28 ("horse"). Pliocene or Pleistocene (Idaho beds); Idaho.

Nomland, J. O. 1916 A, 83 (Equus or Pliohippus). Pleistocene (Jacalitos); California.

Obalski, T. 1904 A, 216 ("cheval"). Pleistocene; Alaska.

Osborn, H. F. 1910 B, 368 ("Equus". Pleistocene (Peace Creek); Florida, Alaska: 490 ("Equus"); Alaska: 468 ("horse"); Pleistocene (Lake Lahontan); Nevada.

Paret, T. D. 1894 A, 97 ("horse").

Peterson, O. A. 1917 A, 474. Pleistocene (Middle); Virginia.
  1926 A, 274. Pleistocene; Pennsylvania.

Quackenbush, L. S. 1909 A, 91-93.

Ransome, F. L. 1919 A, 74 (Equus complicatus). Pleistocene (Gila conglomerate); Arizona.

Ross, C. P. 1923 A, 75. Pleistocene (Gila conglomerate); Arizona.

Russell, I. C. 1885 A, 238 ("horse"). Pleistocene (Lake Lahontan); Nevada.

Schmidt, E. 1872 A, 254 ("pferd"). Pleistocene (Table Mountain); California.

Sellards, E. H. 1916 D, 616. Pleistocene; Florida.

Shimek, B. 1910 A, 130, seq.
  1912 A, 140, 143, 145 ("horse").

Sinclair, W. J. 1904 A, 20. Pleistocene; California: (Fossil Lake); Oregon.
  1904 B, 11. Pleistocene; Nevada.

Smith, D. T. 1904 A, 11 ("horse"). Pleistocene (Lahontan); Nevada.

Stephenson, L. W. 1912 B, 268 ("horse"). Pleistocene; North Carolina.

Stock, C. 1924 A, 11 ("horse").
  1925 A, 113, 201. Pleistocene; California.

Todd, J. E. 1900 A, 99 ("horse"). Sioux Falls, South Dakota.

Turner, H. W. 1906 A, 275 (Texas).

Whitney, J. D. 1865 A, 102, 242, 251, 252 ("horse"). Pleistocene; California.
  1879 B, 261 ("horse"); California.

Whittelsey, C. 1848 A, 215 ("horse").

Whittelsey, C. 1866 A, 16 ("horse."). Pleistocene; Ohio, New York.
Wyman, J. 1875 A, 35, 42, 81 ("extinct horse").
Young and Cooper 1926 A, 5 ("horse").
1927 A, 2 ("horse").

Superfamily BRONTOTHERIOIDÆ, new form.

Hay, O. P. 1902 A, 629 (Brontotherioidea).
Abel, O. 1912 D, 608 ("titanotherien").
Case, E. C. 1898 C, 833 (Titanotheroidæ).
Gidley, J. W. 1912 B, 179 (Titanotherioidea).
Gregory, W. K. 1920 A, 247 (Titanotheroidea).
Hay, O. P. 1927 E, 77 ("titanotheres").
Howes, G. B. 1902 A, 523 (Titanotheria).
Osborn, H. F. 1903 G, 835 ("titanotheres").
1910 B, 556 (Titanotheroidea).
Schlosser, M. 1901 B, 300 (Titanotheroidea).
Weber and Abel 1928 A, 426, 626, 684 (Titanotherioidea).

LAMBDOTHERIIDÆ Cope.

Cope, E. D. 1889 R, 629.
Hay, O. P. 1902 A, 629 (Lambdotheriinæ).
Abel, O. 1913 B, 730, 754a (Palæosyopinæ).
1914 A, 251 (Palæosyopinæ).
1919 A, 867 (Palæosyopinæ).
Ameghino, F. 1902 B, 10 (Palæosyopinæ).
Arldt, T. 1907 D, 253 (Palæosyopinæ).
Osborn, H. F. 1910 B, 556 (Palæosyopidæ).
Palacký, J. 1903 B, 306 ("paläosyopinen").
Riggs, E. S. 1912 A, 25, 40 (Dolichorinæ).
Trouessart, E. L. 1905 A, 618 (Palæosyopinæ).
Weber, M. 1904 A, 614, 617 (Palæosyopidæ).
Weber and Abel 1928 A, 426, 650, 684 (Palæosyopidæ).
Zittel and Schlosser 1911 A, 465 (Palæosyopinæ).
1923 A, 551, 669 (Palæosyopinæ).

LAMBDOTHERIUM Cope. Type *L. popoagicum* Cope.

Hay, O. P. 1902 A, 629.
Abel, O. 1922 C, 260, fig. 212.
Arldt, T. 1907 D, 253.
Granger, W. 1910 A, 246.
1914 A, 202.
Gregory, W. K. 1910 A, 386, 387.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
1926 C, 169, fig. 26.
1928 B, 967, 979, figs. 10, 15.
Osborn, H. F. 1897 I, 107.
1907 G, 175, figs. 167, 168.
1909 D, 23, 128.
1910 B, 124, 130, 134, 178, 556.
1912 G, 226, fig. 3.
1914 B, 403.
1919 B, 558.
Palmer, T. S. 1904 A, 363, 942.
Schlosser, M. 1901 E, 150.
Schuchert, C. 1910 A, 599.
Schuchert and Levene 1927 A, 347.
Scott, W. B. 1913 A, 275, 315.
Seeley, H. G. 1886 A, 476.
Sinclair and Granger 1911 B, 723.
Trouessart, E. L. 1905 A, 618.
Weber, M. 1904 A, 617, 620.
Zittel and Schlosser 1911 A, 465.
1923 A, 551, 666.

Lambdotherium magnum Osborn.

Osborn, H. F. 1919 B, 559, 562, fig. 3.
Lower Eocene (Huerfano); Colorado.

Lambdotherium popoagicum Cope.

Hay, O. P. 1902 A, 629.
Loomis, F. B. 1907 B, 357, 362, fig. 2 (L. primævum).
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1908 A, 599, figs. 1-3.
1909 D, 46, 47, 49 (L. popoagicum); 38, 48 (L. primævum).
1913 C, 414, figs. 4*A*, 7*B*, 9*I-L*.
1919 B, 559.
Schlosser, M. 1901 E, 150.
Sinclair and Granger 1911 A, 91, 108 (L. primævum a syn.).
Trouessart, E. L. 1905 A, 618.
Lower Eocene (Wasatch and Wind River); Wyoming, New Mexico.

Lambdotherium priscum Osborn.

Osborn, H. F. 1913 C, 413, figs. 7a, 9a-e.
Abel, O. 1922 C, 259, fig. 211.
Osborn, H. F. 1919 B, 559, 560, fig. 3.
Lower Eocene (Wind River); Wyoming.

Lambdotherium progressum Osborn.

Osborn, H. F. 1913 C, 415, figs. 8, 9f-h.
1919 B, 559, 560, fig. 2.
Lower Eocene (Wind River); Wyoming.

EOTITANOPS Osborn. Type *Palæosyops borealis* Cope.

Osborn, H. F. 1907 A, 242.
Abel, O. 1922 C, 271.
Christman, E. S. 1921 A, 621, fig.
Granger, W. 1910 A, 243, 246.
1914 A, 202.
Gregory, W. K. 1912 F, 285.
1921 B, 621.
Haug, E. 1911 A, 1528.
Lydekker, R. 1915 C, 621, fig. 2.
Matthew, W. D. 1909 C, 102.
1926 C, 170, fig. 26.
1928 B, 967, 979, fig. 15.
Osborn, H. F. 1908 A, 600.
1909 D, 23, 44, 45.
1910 B, 130, 134, 556.
1912 B, 258, 263, figs. 3, 4.
1912 G, 236, fig. 3.
1912 L, 184, figs. 3, 4.

Osborn, H. F. 1913 C, 407.
1914 B, 403.
1914 C, 406.
1915 B, 215, figs. 4, 5.
1917 B, 263, 264, figs.
1919 B, 558.
Schuchert and Levene 1927 A, 347, fig.
Scott, W. B. 1913 A, 275, 291, 315.
Zittel and Schlosser 1923 A, 551, 666.

Eotitanops borealis (Cope).

Hay, O. P. 1902 A, 631 (Telmatherium).
Granger, W. 1910 A, 243.
Gregory, W. K. 1910 A, 394, fig. 24.
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1897 I, 107 (Telmatotherium).
1908 A, 600, fig. 4.
1909 D, 44, 46, 48.
1913 C, 409, figs. 3, 4*d*, 5*b*.
1917 B, 264, fig.
1919 B, 562.
Peterson, O. A. 1914 B, 57 (Titanops).
Lower Eocene (Wind River); Wyoming.

Eotitanops brownianus (Cope).

Cope, E. D. 1881 D, 196 (Lambdotherium).
Hay, O. P. 1902 A, 631 (Telmatherium boreale, in part).
Granger, W. 1910 A, 343.
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1908 A, 601.
1909 D, 46.
1913 C, 408, figs. 2, 4*c*.
1919 B, 559, 563, fig. 4.
Schlosser, M. 1901 E, 150 (Palæosyops).
Lower Eocene (Wind River); Wyoming.

Eotitanops gregoryi Osborn.

Osborn, H. F. 1913 C, 408, figs. 1, 4*B*, 5*A*.
1917 B, 265.
1919 B, 559, 564, fig. 4.
Lower Eocene (Wind River); Wyoming.

Eotitanops major Osborn.

Osborn, H. F. 1913 C, 412, figs. 5*D*, 6.
1919 B, 562.
Lower Eocene (Wind River); Wyoming.

Eotitanops minimus Osborn.

Osborn, H. F. 1919 B, 559, 564, fig. 4.
Lower Eocene (Huerfano); Colorado.

Eotitanops princeps Osborn.

Osborn, H. F. 1913 C, 410, figs. 4*E*, 5*C*.
1919 B, 562.
Lower Eocene (Wind River); Wyoming.

PALÆOSYOPS Leidy. Type *P. paludosus* Leidy.

Hay, O. P. 1902 A, 630.
Abel, O. 1922 C, 263, fig. 218.
1926 B, 340, fig. 226.
Arldt, T. 1907 D, 253.
Beddard, F. E. 1902 A, 266.
Case, E. C. 1898 C, 838.
Christman, E. S. 1921 A, 625, fig.
Cope, E. D. 1880 U, 154.
Depéret, C. 1912 A, 707.
Dollo, L. 1889 C, 680.
Gaudry, A. 1898 A, 128.
Granger, W. 1909 A, 22.
Gregory, W. K. 1912 F, 285.
1917 D, 630.
1921 B, 625.
Gidley, J. W. 1917 A, 433.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 372.
Matthew, W. D. 1909 C, 102.
1924 E, 748.
1926 C, 170, fig. 26.
1928 B, 967, 979, 983, fig. 15.
Osborn, H. F. 1897 I, 107.
1905 I, 100, pl. iii, fig. 1.
1905 L, 568.
1907 G, 162, figs. 135, 170.
1908 D, 750, figs. 1, 3.
1909 D, 49, 54.
1910 A, 206.
1910 B, 626, fig. 61.
1912 B, 258, fig. 3.
1912 L, 177, 184, figs. 1, 3.
1914 B, 403.
1914 C, 406.
1915 C, 215, fig. 5.
1919 B, 558.
1925 C, 750.
Palmer, R. W. 1913 A, 886.
Palmer, T. S. 1904 A, 504, 942.
Reynolds, S. H. 1897 A, 432.
Sauvage, H. E. 1882 A, 106 (Palæoshyops).
Schlosser, M. 1898 C, 373.
Scott, W. B. 1913 A, 272, 317, 318, figs. 165, 166.
Seeley, H. G. 1886 A, 476.
Trouessart, E. L. 1905 A, 619.
Wallace, A. R. 1876 A, I, 136.
Weber, M. 1904 A, 617.
Weber and Abel 1928 A, 684.
Zittel and Schlosser 1911 A, 465.
1923 A, 551, 667.

Palæosyops copei Osborn.

Osborn, H. F. 1908 A, 606, fig. 10.
Depéret, C. 1892 A, 68, 75.
Gregory, W. K. 1917 D, 630.
Osborn, H. F. 1898 V, 206.
Steinmann, G. 1907 A, 489.
Middle Eocene (Bridger); Wyoming.

Palæosyops fontinalis Cope.

Cope, E. D. 1873 EE, 1.
Hay, O. P. 1902 A, 630 (Limnohyops).
Matthew, W. D. 1909 C, 98.
Osborn, H. F. 1919 B, 557, 559, 564, 565, fig. 5.
Middle Eocene (Bridger); Wyoming.

Palæosyops grangeri Osborn.

Osborn, H. F. 1908 A, 604, fig. 9.
Middle Eocene (Bridger); Wyoming.

Palæosyops humilis Leidy.

Hay, O. P. 1902 A, 630.
Matthew, W. D. 1909 C, 98.
Middle Eocene (Bridger); Wyoming.

Palæosyops junior Leidy.

Hay, O. P. 1902 A, 630.
Eocene (Bridger); Wyoming.

Palæosyops lævidens Cope.

Cope, E. D. 1873 EE, 1 (Limnohyus).
Hay, O. P. 1902 A, 630.
Middle Eocene (Bridger); Wyoming.

Palæosyops leidyi Osborn.

Osborn, H. F. 1908 A, 604, fig. 8.
Abel, O. 1913 B, 755a, fig. 106.
1922 C, 263, fig. 220.
Gregory, W. K. 1916 A, 245, fig. 4.
1917 D, 630.
Osborn, H. F. 1910 B, 163, fig. 63.
Middle Eocene (Bridger); Wyoming.

Palæosyops longirostris Earle.

Hay, O. P. 1902 A, 631.
Middle Eocene (Bridger); Wyoming.

Palæosyops major Leidy.

Hay, O. P. 1902 A, 631 (P. paludosus, in part).
Abel, O. 1919 A, 868, fig. 664 (P. maior).
1922 C, 263, fig. 219 (P. maior).
Gregory, W. K. 1917 D, 630.
Osborn, H. F. 1904 F, 3, 26.
1921 D, 3, fig. 1.
Weber and Abel 1928 A, 684, fig. 470.
Zittel and Schlosser 1911 A, 464, fig. 646.
1923 A, 551, fig. 685.
Middle Eocene (Bridger); Wyoming.

Palæosyops paludosus Leidy.

Hay, O. P. 1902 A, 631.
Baird, S. F. 1876 A, 322 (P. agenus, error for P. diaconus?).
Cope, E. D. 1872 SS, 1.
1873 EE, 1 (P. paludosus, Limnohyus robustus).
Gregory, W. K. 1917 D, 630.
Marsh, O. C. 1884 F, fig. 69 (P. robustus).
Matthew, W. D. 1909 C, 98 (Limnohyops diaconus, P. major, P. palûdosus, P. robustus).
Merrill, G. P. 1907 A, 53.
Osborn, H. F. 1897 I, 107.
1902 A, 80, fig. 2.
1904 F, 43 ("Palæosyops").
Trouessart, E. L. 1905 A, 619.
Middle Eocene (Bridger); Wyoming.

Palæosyops ultimus Matthew.

Hay, O. P. 1902 A, 631.
Matthew, W. D. 1909 C, 99 (Manteoceras).
Upper Eocene (Uinta); Utah.

Palæosyops sp. indet.

Hills, R. C. 1889 A, 222. Eocene (Huerfano); Colorado.

LIMNOHYOPS Marsh. Type *L. laticeps* Marsh.

Hay, O. P. 1902 A, 630.
Dollo, L. 1889 C, 680 (Limnohyus).
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
Osborn, H. F. 1914 B, 403.
Palmer, T. S. 1904 A, 376, 942.
Trouessart, E. L. 1905 A, 618.
Wallace, A. R. 1876 A, 136 (Limnohyus).
Zittel and Schlosser 1911 A, 465.
1923 A, 551, 667.

Limnohyops laticeps Marsh.

Hay, O. P. 1902 A, 630.
Matthew, W. D. 1909 C, 98.
Osborn, H. F. 1897 I, 107 (Palæosyops).
Trouessart, E. L. 1905 A, 618.
Middle Eocene (Bridger); Wyoming.

Limnohyops matthewi Osborn.

Osborn, H. F. 1908 A, 602, fig. 6.
Middle Eocene (Bridger); Wyoming.

Limnohyops monoconus Osborn.

Osborn, H. F. 1908 A, 603, fig. 7.
Eocene; Wyoming.

Limnohyops priscus Osborn.

Osborn, H. F. 1908 A, 601, fig. 5.
Middle Eocene (Bridger); Wyoming.

HETEROTITANOPS Peterson. Type *H. parvus* Peterson.

Peterson, O. A. 1914 B, 53.

Heterotitanops parvus Peterson.

Peterson, O. A. 1914 B, 53, pl. xi; text-figs. 1, 2.
Upper Eocene (Uinta); Utah.

TELMATHERIUM Marsh. Type *T. validum* Marsh.

Hay, O. P. 1902 A, 631.
Abel, O. 1922 C, 263.
Beddard, F. E. 1902 A, 267 (Telmatotherium).
Granger, W. 1909 A, 22.
Gregory, W. K. 1910 A, 188, 192.
1912 A, 546.
1916 A, 251, fig. 9.
1927 E, 345.
Matthew, W. D. 1909 C, 102.
1926 C, 170, fig. 26.
1928 B, 967, 979, fig. 15.
Osborn, H. F. 1897 I, 107 (Telmatotherium).
1905 I, 100, pl. iii, fig. 2 (Telmatotherium).
1910 B, 164, 556.
1912 B, 258, fig. 3.
1912 L, 184, fig. 3.
1914 B, 403.
1915 B, 215, fig. 5.
1925 E, 8.
Palmer, T. S. 1904 A, 667, 942.
Schlosser, M. 1899 S, 320 (Telmatotherium).
Scott, W. B. 1913 A, 291.

Trouessart, E. L. 1905 A, 619 (Telmatotherium).
Weber, M. 1904 A, 618 (Telmatotherium).
Zittel and Schlosser 1911 A, 465.
1923 A, 551, 667-670.

Telmatherium accola Cook.

Cook, H. J. 1926 B, 16, pls. ix-x, fig. 3.
Lower Oligocene (Chadron); Colorado.

Telmatherium advocatum Cook.

Cook, H. J. 1926 B, 17, pls. ix, xi (T. advocata).
Lower Oligocene (Chadron); Colorado.

Telmatherium altidens Osborn.

Osborn, H. F. 1908 A, 614, fig. 18 (This genus?).
Upper Eocene (Uinta); Utah.

Telmatherium cultridens (Scott and Osborn).

Hay, O. P. 1902 A, 631.
Gregory, W. K. 1910 A, 192, fig. 13.
1927 E, 347.
Matthew, W. D. 1909 C, 98.
Middle Eocene (Bridger); Wyoming.

Telmatherium? marshii (Hay).

Hay, O. P. 1902 A, 776 (Canis).
Matthew, W. D. 1909 D, 340 ("Canis"); 341 (Telmatherium?).
Trouessart, E. L. 1904 A, 216 (Vulpavus).
A species of doubtful position.
Middle Eocene (Bridger), Wyoming.

Telmatherium ultimum Osborn.

Osborn, H. F. 1908 A, 613, fig. 17.
Abel, O. 1922 C, 263, fig. 221.
Gregory, W. K. 1912 A, 546.
1927 J, 441.
Upper Eocene (Uinta); Utah.

Telmatherium validum Marsh.

Hay, O. P. 1902 A, 632.
Matthew, W. D. 1909 C, 98.
Trouessart, E. L. 1905 A, 619.
Middle Eocene (Bridger); Wyoming.

Telmatherium vallidens (Cope).

Cope, E. D. 1872 SS, 1 (Palæosyops).
Hay, O. P. 1902 A, 632.
Matthew, W. D. 1909 C, 98.
Schlosser, M. 1899 G, 168 (Manteoceras).
Trouessart, E. L. 1905 A, 619 (Syn. of T. validum).
Middle Eocene (Bridger and Washakie); Wyoming.

Telmatherium sp. indet.

Matthew, W. D. 1909 C, 99. Eocene (Uinta); Wyoming, Utah.

STHENODECTES Gregory. Type *Telmatherium incisivum* Douglass.

Gregory, W. K. 1912 A, 546.
Osborn, H. F. 1914 B, 403.
Riggs, E. S. 1912 A, 38, 41.

Sthenodectes incisivus (Douglass).

Douglass, E. 1910 A, 305, pl. xiii, fig. 1; text-figs. 1-3 (Telmatherium?).
Gregory, W. K. 1912 A, 546.
Riggs, E. S. 1912 A, 38, 39, pl. xii.
Upper Eocene (Uinta); Utah.

DIPLACODON Marsh. Type *D. elatus* Marsh.

Hay, O. P. 1902 A, 632.
Abel, O. 1922 C, 263, fig. 218.
1926 B, 340, fig. 226.
Arldt, T. 1907 D, 253.
Case, E. C. 1898 C, 838.
Dollo, L. 1889 C, 680.
Eastman, C. R. 1913 B, 677.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
1924 E, 748.
1928 B, 967.
Osborn, H. F. 1909 D, 23, 54.
1910 B, 169, 170, 206, 556.
1912 G, 237, 239.
1914 B, 403.
Palmer, T. S. 1904 A, 236, 942.
Schlosser, M. 1899 G, 167.
1899 S, 320.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 266, 313, 317, fig. 165.
Trouessart, E. L. 1905 A, 620.
Weber, M. 1904 A, 617.
Weber and Abel 1928 A, 684.
Zittel and Schlosser 1911 A, 465.
1923 A, 552, 669.

Diplacodon elatus Marsh.

Hay, O. P. 1902 A, 632.
Matthew, W. D. 1909 C, 99.
Peterson, O. A. 1914 A, 29, 36, pl. ix (D. elatum).
Upper Eocene (Uinta); Utah.

Diplacodon sp. indet.

Matthew, W. D. 1909 C, 99. Upper Eocene (Uinta); Utah.

MANTEOCERAS Hatcher. Type *Palæosyops manteoceras* Osborn.

Hay, O. P. 1902 A, 632.
Abel, O. 1922 C, 263, fig. 218.
1926 B, 340, fig. 226.
Beddard, F. E. 1902 A, 267.
Granger, W. 1909 A, 22.
1912 A, 546.
Gregory, W. K. 1920 A, 197, fig. 174.
1927 E, 347.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
Osborn, H. F. 1905 I, 100, pl. iii, fig. 3.
1908 A, 606.

Osborn, H. F. 1909 D, 53.
1910 A, 206.
1910 B, 17, 139, 142, 164, 167, 556, fig. 49.
1912 B, 258, fig. 3.
1912 G, 241, fig. 6.
1912 L, 177, 184, figs. 1, 3.
1914 B, 403.
1915 B, 215, fig. 5.
1925 E, 2.
Palmer, T. S. 1904 A, 399, 942.
Scott, W. B. 1913 A, 272, 317, fig. 165.

Manteoceras foris Cook.

Cook, H. J. 1926 B, 18, pl. vii.
Lower Oligocene (Chadron); Colorado.

Manteoceras manteoceras (Osborn).

Hay, O. P. 1902 A, 632.
Abel, O. 1919 A, 868, fig. 664.
Matthew, W. D. 1909 C, 98.
Osborn, H. F. 1897 I, 107 (Palæosyops).
1902 A, 80 (Limnohyops).
1902 E, 360 (Palæosyops).
1908 A, 606.
1917 B, 264, fig.
1921 D, 3, fig. 1.
Trouessart, E. L. 1905 A, 619 (Limnohyops).
Middle Eocene (Bridger); Wyoming.

Manteoceras pratensis Cook.

Cook, H. J. 1926 B, 18, pl. viii.
Lower Oligocene (Chadron); Colorado.

Manteoceras uintensis Douglass.

Douglass, E. 1910 A, 307, pl. xiii, fig. 4; text-figs. 4, 5.
Upper Eocene (Uinta); Utah.

Manteoceras washakiensis Osborn.

Osborn, H. F. 1908 A, 607, fig. 11.
Granger, W. 1909 A, 21, fig. 2.
Middle Eocene (Washakie); Wyoming.

Manteoceras sp. indet.

Cook, H. J. 1926 B, 18, pl. xi. Oligocene (Chadron); Colorado.
Matthew, W. D. 1909 C, 99. Upper Eocene (Uinta); Wyoming.

PROTITANOTHERIUM Hatcher. Type *Diplacodon emarginatus* Hatcher.

Hatcher, J. B. 1895 A, 1084.
Hay, O. P. 1902 A, 632 (Diplacodon, in part).
Gregory, W. K. 1927 E, 338, 345.
1927 J, 442.
Matthew, W. D. 1924 E, 748.
1926 C, 170, fig. 26.
1928 B, 979, fig. 15.
Osborn, H. F. 1910 B, 142, 169, 556, fig. 49.
1912 G, 239.
1914 B, 403.
1925 E, 1, 6.
Palmer, T. S. 1904 A, 580, 942.
Peterson, O. A. 1914 A, 29.
1914 F, 220.
Scott, W. B. 1913 A, 266, 313.
Zittel and Schlosser 1911 A, 466.
1923 A, 553, 669.

Protitanotherium emarginatum Hatcher.

Hay, O. P. 1902 A, 633 (Diplacodon).
Gregory, W. K. 1927 E, 338.
Matthew, W. D. 1909 C, 99 (Diplacodon).
Osborn, H. F. 1904 F, 4 (Diplacodon).
1917 B, 264, fig.
1925 E, 7.
Peterson, O. A. 1914 A, 31.
Schlosser, M. 1899 G, 168 (Diplacodon).
Upper Eocene (Uinta); Utah.

Protitanotherium superbum Osborn.

Osborn, H. F. 1908 A, 615, fig. 19.
1925 E, 1, 7.
Upper Eocene (Uinta); Utah.

DOLICHORHINUS Hatcher. Type *Telmatherium cornutum* Osborn.

Hay, O. P. 1902 A, 632.
Granger, W. 1909 A, 22.
Gregory, W. K. 1912 A, 546.
1927 E, 345.
Matthew, W. D. 1909 C, 102.
1926 C, 170, fig. 26.
Osborn, H. F. 1905 I, 100, pl. iii, fig. 4.
1908 D, 750, figs. 1, 2.
1909 D, 53.
1910 B, 613.
1912 B, 258, fig. 3.
1912 G, 237, 241, fig. 6.
1912 L, 177, fig. 1.
1914 B, 405.
1915 B, 215, fig. 5.
1919 B, 569.
1925 E, 1.
Peterson, O. A. 1924 A, 405, 430.
Riggs, E. S. 1912 A, 31, 40.
Scott, W. B. 1913 A, 272, 291.
Weber and Abel 1928 A, 684.
Zittel and Schlosser 1911 A, 465.
1923 A, 551, 668.

Dolichorhinus cornutus (Osborn).

Hay, O. P. 1902 A, 632.
Abel, O. 1919 A, 868, fig. 664.
Beddard, F. E. 1902 A, 267 (Telmatotherium).
Matthew, W. D. 1902 C, 99.
Osborn, H. F. 1901 A, 80, fig. 2 (Telmatotherium).
1902 E, 360 (Telmatotherium).
1909 D, 54, 57.
Peterson, O. A. 1924 A, 408, 431, text-figs. 5-7.
Riggs, E. S. 1912 A, 31.
Schlosser, M. 1899 G, 168 (Telmatotherium).
Zittel and Schlosser 1911 A, 465, fig. 647 (Telmatherium).
1923 A, 552, fig. 686 (Telmatherium).
Upper Eocene (Uinta); Utah.

Dolichorhinus fluminalis Riggs.

Riggs, E. S. 1912 A, 33, pl. x.
Holland and Peterson 1913 A, 238.
Peterson, O. A. 1924 A, 437, 442, text-figs. 16-18.
Upper Eocene (Uinta); Utah.

Dolichorhinus heterodon Douglass.

Douglass, E. 1910 A, 310, pl. xiii, fig. 3; text-figs. 6, 7.
Peterson, O. A. 1924 A, 435, figs. 8, 9.
Riggs, E. S. 1912 A, 32.
Upper Eocene (Uinta); Utah.

Dolichorhinus hyognathus (Scott and Osborn).

Hay, O. P. 1902 A, 632 (Telmatherium).
Abel, O. 1919 A, 867, fig. 663.
1922 C, 267, 271, figs. 225, 228.
Granger, W. 1909 A, 19.
Matthew, W. D. 1909 C, 98 (Telmatherium).
Osborn, H. F. 1908 A, 611, fig. 16.
1921 D, 3, fig. 1.
1925 E, 2.
Peterson, O. A. 1924 A, 408, 410, 430, text-fig. 4.
Riggs, E. S. 1912 A, 32.
Weber and Abel 1928 A, 685, fig. 471.
Upper Eocene (Washakie); Wyoming.

Dolichorhinus intermedius Osborn.

Osborn, H. F. 1908 A, 611, fig. 15.
Peterson, O. A. 1924 A, 431, 439, text-fig. 12.
Riggs, E. S. 1912 A, 32.
Upper Eocene (Uinta); Utah.

Dolichorhinus longiceps Douglass.

Douglass, E. 1910 A, 312, pl. xiii, fig. 2; pls. xiv, xv; text-fig. 8.
Peterson, O. A. 1914 D, 129, figs. 1-7 (This species?).
1924 A, 406, 437, pls. xliv-lvii; text-figs. 2, 3, 10, 11.
Riggs, E. S. 1912 A, 32, pl. ix, figs. 1, 2.
Upper Eocene (Uinta); Utah.

Dolichorhinus superior (Riggs).

Riggs, E. S. 1912 A, 26, 39, pl. vi (Mesatirhinus).
Peterson, O. A. 1923 C, 436 (Mesatirhinus); 440, text-figs. 13, 14 (Dolichorhinus).
Scott, W. B. 1913 A, 271, 314, figs. 140, 163 (Mesatirhinus).
Upper Eocene (Uinta); Utah.

Dolichorinus sp. indet.

Holland, W. J. 1919 A, 38. Upper Eocene (Uinta); Utah.
Matthew, W. D. 1909 C, 99. Upper Eocene (Uinta); Wyoming.

TANYORHINUS Cook. Type *T. blairi* Cook.

Cook, H. J. 1926 B, 13.

Tanyorhinus blairi Cook.

Cook, H. J. 1926 B, 13, pls. i-iii.
Young and Cooper 1927 A, 2.
Lower Oligocene (Chadron); Colorado.

Tanyorhinus bridgeri Cook.

Cook, H. J. 1926 B, 15, pls. iv-vi.
Lower Oligocene (Chadron); Colorado.

Tanyorhinus harundivorax Cook.

Cook, H. J. 1926 B, 16, pl. x, fig. 2.
Lower Oligocene (Chadron); Colorado.

MESATIRHINUS Osborn. Type *Palæosyops megarhinus* Earle.

Osborn, H. F. 1908 A, 608.
Granger, W. 1909 A, 22.
Gregory, W. K. 1912 A, 546.
1927 E, 347.
Osborn, H. F. 1909 D, 51-53.
1910 A, 206.
1910 B, 164, 556.
1912 G, 241, fig. 6.
1914 B, 405.
1919 B, 568, 569.
Peterson, O. A. 1914 D, 138.
Riggs, E. S. 1912 A, 26, 40.
Zittel and Schlosser 1911 A, 465.
1923 A, 551.

Mesatirhinus megarhinus (Earle).

Hay, O. P. 1902 A, 632 (Telmatherium).
Matthew, W. D. 1909 C, 98 (Telmatherium).
Osborn, H. F. 1909 D, 52-54.
1919 B, 569.
Peterson, O. A. 1924 A, 441.
Middle Eocene (Bridger); Wyoming.

Mesatirhinus petersoni Osborn.

Osborn, H. F. 1908 A, 608, fig. 12.
Gregory, W. K. 1910 A, 395, fig. 25.
Peterson, O. A. 1924 A, 441.
Riggs, E. S. 1912 A, 39.
Middle Eocene (Washakie, Bridger); Wyoming.

EOTITANOTHERIUM Peterson. Type *Diploceras osborni* Peterson.

Peterson, O. A. 1914 F, 220.
Gregory, W. K. 1927 J, 442.
Peterson, O. A. 1914 A, 30 (Diploceras, preoccupied).
1914 D, 136.
1924 A, 417.

Eotitanotherium osborni (Peterson).

Peterson, O. A. 1914 A, 30, pls. vi-vii, v; text-figs. 1-15 (Diploceras).
1924 A, 424.
Upper Eocene (Uinta); Utah.

SPHENOCŒLUS Osborn. Type *S. uintensis* Osborn.

Hay, O. P. 1902 A, 691.
Holland and Peterson 1913 A, 215.
Osborn, H. F. 1914 B, 405.
Palmer, T. S. 1904 A, 640, 909.
Peterson, O. A. 1924 A, 409.

Sphenocœlus uintensis Osborn.

Hay, O. P. 1902 A, 691.
Holland and Peterson 1913 A, 215.
Upper Eocene (Uinta); Utah.

EOMETARHINUS Osborn. Type *E. huerfanensis* Osborn.

Osborn, H. F. 1919 B, 568.

Eometarhinus huerfanensis Osborn.

Osborn, H. F. 1919 B, 568, fig. 7.
Lower Eocene (Huerfano); Colorado.

METARHINUS Osborn. Type *M. fluviatilis* Osborn.

Osborn, H. F. 1908 A, 609.
Gregory, W. K. 1912 A, 546.
Huene, F. 1911 E, 107.
Osborn, H. F. 1910 B, 166, 168, 556.
1914 B, 405.
1919 B, 568, 569.
1925 E, 2.
Riggs, E. S. 1912 A, 27, 40.

Metarhinus cristatus Riggs.

Riggs, E. S. 1912 A, 27, 28, pl. ix, fig. 3.
Upper Eocene (Uinta); Utah.

Metarhinus earlei Osborn.

Osborn, H. F. 1908 A, 610, fig. 14.
Granger, W. 1909 A, 19.
Gregory, W. K. 1912 A, 546.
Riggs, E. S. 1912 A, 29, pl. viii; pl. xi, fig. 1.
Middle Eocene (Washakie); Wyoming.

Metarhinus fluviatilis Osborn.

Osborn, H. F. 1908 A, 609, fig. 13.
Riggs, E. S. 1912 A, 27.
Upper Eocene (Uinta); Wyoming.

Metarhinus riparius Riggs.

Riggs, E. S. 1912 A, 27, 28, pl. vii.
Upper Eocene (Uinta); Utah.

RHADINORHINUS Riggs. Type *R. abbotti* Riggs.

Riggs, E. S. 1912 A, 36, 39, 41.
Osborn, H. F. 1914 B, 405.
1919 B, 569.

Rhadinorhinus abbotti Riggs.

Riggs, E. S. 1912 A, 36, pl. xi, figs. 2, 3.
Upper Eocene (Uinta); Utah.

Rhadinorhinus diploconus (Osborn).

Hay, O. P. 1902 A, 631 (Telmatherium).
Matthew, W. D. 1909 C, 99 (Telmatherium).
Riggs, E. S. 1912 A, 37, 39.
Upper Eocene (Uinta); Utah.

BRONTOTHERIIDÆ Marsh.

Unless otherwise indicated the authors cited employ the name Titanotheriidæ for this family.

Marsh, O. C. 1873 H, 486 (Brontotheridæ).
Hay, O. P. 1902 A, 629.
Abel, O. 1912 D, 599 ("titanotheriden").
1912 F, 645 ("titanotherien").
1913 B, 730, 754a.
1914 A, 249.
1919 A, 865.
1920 A, 451 ("titanotheriiden").
1922 C, 263, 271 ("titanotheriiden").
1926 B, 340 ("titanotheriiden").
Andrews, C. W. 1903 C, 1 ("titanotheres").
Arldt, T. 1907 D, 685 (Titanotheridæ).
1912 A, 700 (Titanotheridæ).
Bassler, R. S. 1919 A, 61 ("titanotheres").
Beddard, F. E. 1902 A, 264.
Delafontaine, M. 1875 A, 174 ("brontothérides").
Depéret, C. 1912 A, 708 ("titanothéridés").
Dollo, L. 1889 C, 679 (Brontotheridæ).
Flower, W. H. 1876 B, XIII, 327 (Titanotheridæ).
1876 C, 109 (Titanotheridæ).
Fraas, E. 1902 C, lxviii (Titanotherium).
Gidley, J. W. 1917 A, 432 ("titanotheres").
Gregory, W. K. 1912 E, 15 ("titanotheres").
Gregory, W. K. 1912 F, 294.
1914 D, 294 ("titanotheres").
1927 A, 601 ("titanotheres").
1927 E, 345 ("titanotheres").
Hoernes, R. 1886 A, 668 (Brontotheridæ).
Leche, W. 1887 A.
Lee, Stone, Gale 1915 A, 39 ("titanotheres").
Lydekker, R. 1914 A, 635.
Matthew, W. D. 1909 C, 95, 98, 102, 104, 111.
1914 B, 386.
1917 A, 577.
1921 D, 214.
1926 C, 168, 169, fig. 26 ("titanotheres").
1928 B, 968, 980 ("titanotheres").
O'Harra, C. C. 1910 A, 98.
1920 A, 110.
Osborn, H. F. 1897 I, 107 ("titanotheres").
1902 A, 79 ("titanotheres").
1902 B, 91 ("titanotheres").
1902 E, 359 ("titanotheres").
1905 B, 28 ("titanotheres").
1905 D, 315 ("titanotheres").
1905 H, 219, 224, fig. 7.
1905 I, 100 ("titanotheres").
1906 C, 841, 847, 857 ("titanotheres").
1907 G, 175 ("titanotheres").

Osborn, H. F. 1908 B, 148 ("titanotheres").
1908 C, 255 ("titanotheres").
1909 D, 41, 52, 59, 61.
1910 B, 556, 633 (Titanotheridæ).
1910 C, 80 ("titanotheres").
1911 A, 825 ("titanotheres").
1912 B, 252 ("titanotheres").
1912 C, 595 ("titanotheres").
1912 E, 144 ("titanotheres").
1912 F, 279 ("titanotheres").
1912 L, 177, 178, 184, 189, fig. 3 ("titanotheres").
1914 B, 403 ("titanotheres").
1914 E, 411 ("titanotheres").
1915 B, 218 ("titanotheres").
1915 D, 284 ("titanotheres").
1918 C, 133.
1921 D, 6 ("titanotheres").
1925 E, 5.
1926 A, 189 ("titanotheres").
1926 C, 341 ("titanotheres").
Palacký, J. 1903 B, 313 ("titanotherien").
Palmer, T. S. 1904 A, 774, 941.
Reynolds, S. H. 1897 A, 432, 470.
Riggs, E. S. 1912 A, 17.
Sauvage, H. E. 1882 A, 105 (Menodontidæ).
Schlosser, M. 1911 A, 165 ("titanotheriiden").
Schmidt, O. 1886 A, 198 (Brontotheridæ).
Scott, W. B. 1913 A, 291, 308, 691 (Titanotheridæ).
Steinmann, G. 1907 A, 488.
Trouessart, E. L. 1905 A, 618.
Wallace, A. R. 1876 A, I, 137 (Brontotheridæ).
Wanless, H. R. 1923 A, 207 ("titanotheres"); 206, 246 (Titanotherium).
Weber, M. 1904 A, 614, 618.
Weber and Abel 1928 A, 650, 684.
Winge, H. 1906 A, 71, 155 (Titanotheriini).
Woodward, A. S. 1910 B, 469 ("titanotheres").
1923 C, 29.
Zittel and Schlosser 1911 A, 464.
1923 A, 550, 602, 667, 670.

SYMBORODON Cope. Type *S. torvus* Cope.

Hay, O. P. 1902 A, 637.
Abel, O. 1913 B, 755a.
Haug, E. 1911 A, 1528.
Lull, R. S. 1905 B, 423.
Matthew, W. D. 1909 C, 111.
Osborn, H. F. 1902 B, 92, 93, 103, fig. 1.
1902 F, 626.
1905 H, 224, fig. 7.
1905 I, pl. iv, fig. 3; pl. v, fig. 3.
1910 B, 212, 556, fig. 100.
Palmer, T. S. 1904 A, 655, 942.
Schlosser, M. 1899 S, 321.
Trouessart, E. L. 1905 A, 621.

Symborodon acer Cope.

Hay, O. P. 1902 A, 637.
Lambe, L. M. 1904 C, 28, 38, 50 (This species?).
Matthew, W. D. 1901 B, 356 (S. acer, S. altirostis).
1909 C, 104.
Osborn, H. F. 1902 B, 103 (S. altirostris a syn.).
Trouessart, E. L. 1905 A, 622.
Lower Oligocene (Chadron); Colorado, Canada.

Symborodon copei Osborn.

Osborn, H. F. 1908 A, 616, fig. 21.
Abel, O. 1919 A, 871, fig. 667.
O'Harra, C. C. 1920 A, 150.
Lower Oligocene (Chadron); South Dakota.

Symborodon montanus (Marsh).

Hay, O. P. 1902 A, 637.
Cook, H. J. 1912 D, 34 (Symbordon).
Matthew, W. D. 1909 C, 104.
Merrill, G. P. 1907 A, 61 (This genus?).
O'Harra, C. C. 1920 A, 150.
Osborn, H. F. 1902 B, 103, fig. 8.
Trouessart, E. L. 1905 A, 622.
Lower Oligocene (Chadron); Nebraska.

Symborodon torvus Cope.

Hay, O. P. 1902 A, 637.
Matthew, W. D. 1901 B, 356.
1909 C, 104.
Osborn, H. F. 1902 B, 103.
1914 E, 414 (Menodus).
Trouessart, E. L. 1905 A, 621.
Lower Oligocene (Chadron); Colorado.

MENODUS Pomel. Type *Menodus giganteus* Pomel = *Palæotherium? proutii* Owen, Norwood, Evans.

Pomel, A. 1849, Arch. Sci., Nat. Bibl. Univ. Genève, x, 75.

Unless otherwise indicated the authors, as quoted, use for this genus the name *Titanotherium*. It is antedated by *Menodus* Pomel.

Hay, O. P. 1902 A, 635.
Abel, O. 1910 B (186).
1913 B, 754*a*.
1922 C, 263, fig. 218.
1926 B, 340, fig. 226.
Ameghino, F. 1904 A, 492.
Anonymous 1912 A, 92.
Arldt, T. 1907 D, 253.
Baird, S. F. 1876 A, 357 (Symborodon).
Beddard, F. E. 1902 A, 264.
Case, E. C. 1898 C, 838.
Cooper, C. F. 1923 A, 49.
Delafontaine, M. 1875 A, 174.
Depéret, C. 1907 B.
Douglass, E. 1905 A, 211.
Fairchild, H. L. 1894 A, 208.
Gaudry, A. 1875 D, 1282.
1893 A, 22.
1896 A, 99.
1906 A, 20.
Gervais, P. 1852 A, 186.
Greene, F. V. 1853 A, 292.
Gregory, W. K. 1910 A, 109.
Grinnell, G. B. 1923 A, 334.
Haug, E. 1911 A, 1528.
Hay, O. P. 1911 B, 400.
Heilprin, A. 1887 A, 372.
Hoernes, R. 1886 A, 668.
Knowlton, F. H. 1922 A, 21, 22.
Lambe, L. M. 1905 D, 368*a*.
Matthew, W. D. 1901 B, 369.
1902 G, 8, fig.
1906 B, 365.

Matthew, W. D. 1909 C, 111.
1915 K, 420.
1926 C, 169, fig. 26.
1928 B, 967.
Osborn, H. F. 1902 B, 92, 93, 95, fig. 1.
1902 F, 626.
1905 I, pl. iv, fig. 2; pl. v, fig. 2.
1909 D, 23, 61, 62, 65.
1910 B, 633, fig. 100.
1912 G, 243, fig. 8.
1914 B, 405 (Menodus).
1925 C, 750.
1925 E, 5, 9.
Palacký, J. 1903 B, 306.
Palmer, T. S. 1904 A, 681, 942.
Reynolds, S. H. 1897 A, 508, fig. 106.
Rogers, A. F. 1924 A, 545.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 317, 318, 691, figs. 165, 166.
1914 A, 139 (Menodus).
Schlosser, M. 1899 G, 168.
1899 S, 319.
Shumard, B. F. 1863 A, 141.
Steinmann, G. 1907 A, 489.
Sternberg, C. H. 1917 A, 14, fig. 7.
Toula, F. 1896 A, 922.
Trouessart, E. L. 1905 A, 620.
Wallace, A. R. 1876 A, I, 137.
Weber, M. 1904 A, 617, 618.
Weber and Abel 1928 A, 685.
Woodward, A. S. 1898 B, 330.
1898 D, 331.
Zittel and Schlosser 1911 A, 466.
1923 A, 421, 553, fig. 523.

Menodus heloceras (Cope).

Unless otherwise indicated the authors, as quoted, apply to this species the generic name *Titanotherium*.

Hay, O. P. 1902 A, 636.
Cook, H. J. 1912 D, 34 (T. helocerus).
Granger, W. 1910 A, 240 (This species?).
Matthew, W. D. 1901 B, 356.
1909 C, 104 (T. helocerus).
O'Harra, C. C. 1920 A, 149.
Osborn, H. F. 1902 B, 95, fig. 2.
1912 G, 245.
1914 E, 414 (Menodus).
Schlosser, M. 1899 S, 319.

Lower Oligocene; Colorado, South Dakota, Nebraska.

Menodus ingens (Marsh).

Unless otherwise indicated the authors, as quoted, use the generic name *Titanotherium*.

Hay, O. P. 1902 A, 636.
Abel, O. 1912 D, 608.
1922 C, 270, fig. 226.
1926 B, 337, fig. 224.
Cook, H. J. 1912 D, 34.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1910 A, 100, pl. xxxvii.
1920 A, pl. xx.
Osborn, H. F. 1902 B, 96.
1925 E, 5 ("M. giganteus = M. ingens").
Schmidt, O. 1886 A, 199, fig. 34.
Trouessart, E. L. 1905 A, 620.
Weber and Abel 1928 A, 685, fig. 472 (Brontotherium).
Wyckoff, W. C. 1874 A, 3, 10, 2 figs. ("Brontotherium").

Lower Oligocene (Chadron); Colorado, South Dakota, Nebraska.

Menodus proutii (Owen, Norw., and Evans).

Unless otherwise indicated the authors, as quoted, use the generic name *Titanotherium*.

Hay, O. P. 1902 A, 636.
Abel, O. 1922 C, 266, fig. 222.
1926 B, 339, fig. 225 (This species?).
Cook, H. J. 1912 D, 34 (T. prouti).
Gervais, P. 1859 A, 360 (Titanotherium proutii, Palæotherium giganteum).
Giebel, C. G. 1883 A, pl. xlii (T. prouti).
Lull, R. S. 1918 B, 204.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1910 A, 101.
1920 A, 115, 149, fig. 53 (Titanotherium prouti).
Osborn, H. F. 1914 E, 414 (Menodus giganteus, M. prouti).
1925 E, 1 (M. giganteus).
Schlosser, M. 1898 C, 372.
1899 S, 319 (Palæotherium).
Trouessart, E. L. 1905 A, 620 (Syn. of Titanotherium giganteum).

Lower Oligocene (Chadron); South Dakota, Nebraska.

Menodus trigonoceras (Cope).

Unless otherwise indicated the authors quoted use the generic name *Titanotherium*.

Hay, O. P. 1902 A, 637.
Beddard, F. E. 1902 A, 265, fig. 137.
Matthew, W. D. 1901 B, 356.
1909 C, 104.
O'Harra, C. C. 1920 A, 149.
Osborn, H. F. 1902 B, 96.
1914 E, 414 (Menodus).
Richardson, G. B. 1912 A, 270 (T. trigonoceros?).
1915 A, 9 (T. trigonias?, T. trigonoceras?).
Weber and Abel 1928 A, 686, fig. 473.

Lower Oligocene (Chadron); South Dakota, Colorado.

Menodus sp. indet.

Figgins, J. D. 1921 A, 16, 19 (Titanotherium).

ALLOPS Marsh. Type *A. serotinus* Marsh.

Hay, O. P. 1902 A, 633 (Megacerops, in part).
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1902 B, 102.
Trouessart, E. L. 1905 A, 621.

Allops amplus (Marsh).

Hay, O. P. 1902 A, 633 (Megacerops?).
Cook, H. J. 1912 D, 34.
Lull, R. S. 1905 D, 445 (Megacerops).
Matthew, W. D. 1909 C, 104.

O'Harra, C. C. 1920 A, 150.
Osborn, H. F. 1902 (Allops); fig. 7 (Diploclonus).
Trouessart, E. L. 1905 A, 621.
Lower Oligocene (White River); South Dakota?

Allops crassicornis Marsh.

Hay, O. P. 1902 A, 634 (Megacerops?).
Cook, H. J. 1912 D, 34.
Matthew, W. D. 1909 C, 104.
Merrill, G. P. 1907 A, 21.
O'Harra, C. C. 1920 A, 150.
Osborn, H. F. 1902 B, 102.
Trouessart, E. L. 1905 A, 621.
Lower Oligocene (White River); South Dakota?

Allops serotinus Marsh.

Hay, O. P. 1902 A, 634 (Megacerops?).
Cook, H. J. 1912 D, 34 (A. scrotinus).
Matthew, W. D. 1909 C, 104.
Merrill, G. P. 1907 A, 21.
O'Harra, C. C. 1920 A, 150.
Osborn, H. F. 1902 B, 102.
Trouessart, E. L. 1905 A, 621.
Lower Oligocene (White River); South Dakota

Allops walcotti Osborn.

Osborn, H. F. 1916 A, 721, fig. 1.
Lower Oligocene (White River); South Dakota?

TELEODUS Marsh. Type *T. avus* Marsh.

Hay, O. P. 1902 A, 638.
Arldt, T. 1907 D, 253.
Palmer, T. S. 1904 A, 667, 942.
Schlosser, M. 1899 S, 321.

Teleodus avus Marsh.

Hay, O. P. 1902 A, 638.
Lambe, L. M. 1908 A, 49 (Megacerops).
Osborn, H. F. 1902 B, 99 (Megacerops).
Palacký, J. 1903 B, 311 (Diplacodus avus).
Oligocene (White River); South Dakota.

MEGACEROPS Leidy. Type *M. coloradensis* Leidy.

Hay, O. P. 1902 A, 633.
Abel, O. 1913 B, 755a.
Gaudry, A. 1893 A, 24 (Brontops).
Hatcher, J. B. 1901 B, 256, pls. vii, viii; text-fig. 1 (Titanotherium).
Haug, E. 1911 A, 1528.
Hutchinson, H. N. 1910 A, 261, pl. xlii (Brontops).
Kingsley, J. S. 1925 A, 287, fig. 310.
Lull, R. S. 1905 B, 419, figs. 1-3.
Lydekker, R. 1882 B, 101.
Matthew, W. D. 1909 C, 111.
O'Harra, C. C. 1910 A, 99.
1920 A, 178, pls. xii, xviii.
Osborn, H. F. 1902 B, 92, 93, 97, fig. 1.
1902 F, 626.
1904 F.
1905 H, 224, fig. 7.
1905 I, pl. iv, fig. 1; pl. v, fig. 1.
1910 B, 212, 556, fig. 100.
1914 B, 405 [M. (= Symborodon), Diploclonus].
1914 C, 406 (Brontops).
1925 E, 1 (Brontops).
Palmer, T. S. 1904 A, 146, 941 (Brontops); 403, 942 (Megacerops).
Schlosser, M. 1899 S, 321 (Diploclonus, Brontops).
Trouessart, E. L. 1905 A, 620.
Wallace, A. R. 1876 A, I. 137.
Zittel and Schlosser 1923 A, 552 (Brontops).

Megacerops angustigenis (Cope).

Hay, O. P. 1902 A, 633.
Lambe, L. M. 1904 C, 28, 38, 50.
1908 A, 10, 45, 50, 52, text-figs. 1-6 (M. angustidens); 10, 48, figs. 9, 10 (M. syceras).
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1902 B, 99.
Trouessart, E. L. 1905 A, 621.
Lower Oligocene (Swift Current Creek); Canada.

Megacerops assiniboiensis Lambe.

Lambe, L. M. 1908 A, 11, 51, pl. v, fig. 6; pl. vi, fig. 3; text-figs. 12, 13.
Oligocene (Cypress Hills); Saskatchewan.

Megacerops bicornutus Osborn.

Osborn, H. F. 1902 B, 99, fig. 5.
Abel, O. 1912 F, 580, fig. 450.
1919 A, 871, fig. 666.
Cook, H. J. 1912 D, 34.
Lull, R. S. 1905 D, 445.
Matthew, W. D. 1909 C, 104.
Trouessart, E. L. 1905 A, 621.
Lower Oligocene (Chadron); Nebraska.

Megacerops brachycephalus Osborn.

Osborn, H. F. 1902 A, 97, figs. 3, 4.
Cook, H. J. 1912 D, 34.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1920 A, 150.
Osborn, H. F. 1925 E, 5, 8 (Brontops).
Trouessart, E. L. 1905 A, 620.
Lower Oligocene (Chadron); Nebraska.

Megacerops coloradensis Leidy.

Hay, O. P. 1902 A, 633.
Cannon, G. L. 1894 B, 232 (Megaceratops coloradoensis).
Cope, E. D. 1873 FF, 1 ("Megaceratops").
Knowlton, F. H. 1922 A, 20.
Lambe, L. M. 1904 C, 28, 38, 50.
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1902 B, 99.
Peale, A. C. 1876 A, 150 (Megaceratops coloradoensis).

Trouessart, E. L. 1905 A, 621.
Lower Oligocene (White River); Colorado, Canada.

Megacerops dispar (Marsh).

Hay, O. P. 1902 A, 634.
Abel, O. 1912 F, 59, fig. 21.
Cook, H. J. 1912 D, 34.
Hatcher, J. B. 1902 A, 347, pls. xvi-xviii.
Matthew, W. D. 1909 C, 104.
Merrill, G. P. 1907 A, 26 (Brontops dispar, B. validus); 45 (M. dispar, M. brachycephalus).
O'Harra, C. C. 1910 A, 102.
1920 A, 149.
Osborn, H. F. 1902 B, 98 (Brontops validus a syn.).
1925 E, 1 (Brontops brachycephalus).
Peterson, O. A. 1924 A, 414, 416, 422 (Brontops).
Trouessart, E. L. 1905 A, 621.
Zittel and Schlosser 1911 A, 466, fig. 649 (Titanotherium).
1923 A, 553, fig. 688.
Lower Oligocene (White River); South Dakota, Nebraska.

Megacerops marshi Osborn.

Osborn, H. F. 1902 B, 100, fig. 6.
Abel, O. 1913 B, 755a, fig. 107.
Cook, H. J. 1912 D, 34.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1920 A, 111, 150, fig. 49.
Trouessart, E. L. 1904 A, 621.
Lower Oligocene (Chadron); Nebraska.

Megacerops primitivus Lambe.

Lambe, L. M. 1908 A, 11, 49, pl. vi, figs. 4, 5.
Lower Oligocene (Cypress Hills); Saskatchewan.

Megacerops riggsi Osborn.

Osborn, H. F. 1916 A, 723, fig. 2.
Lower Oligocene (White River); Colorado.

Megacerops robustus Marsh.

Hay, O. P. 1902 A, 635 (Brontotherium).
Abel, O. 1914 A, 256, fig. 230.
1919 A, 870, fig. 665.
1920 A, 452, fig. 691.
1922 C, 182, fig. 147.
Beddard, F. E. 1902 A, 264 (Titanotherium).
Boule, M. 1891 A, 35, fig. 11 (Brontops).
1902 B, 911, fig. 19 (Brontops).
Cooke, H. J. 1912 D, 34.
Dollo, L. 1889 C, 678 (Brontops).
Gaudry, A. 1906 A, 13, fig. 21 (Titanotherium).
Knipe, H. R. 1912 A, 141, fig. (Titanotherium).
Lankester, E. R. 1905 A, 145, fig. 101 (Titanotherium).
Lull, R. S. 1917 F, 214 (Brontotherium, Brontops).
Matthew, W. D. 1909 C, 104.
Moodie, R. L. 1917 B, 384, fig. 7 (Titanotherium).
1918 C, 279 (Titanotherium).
1923 B, 125, pl. xx (Titanotherium).
O'Harra, C. C. 1910 A, 101, pl. xxxv.
1920 A, 113, 150, fig. 52.
Osborn, H. F. 1899 K, 273, fig. 2 (Titanotherium).
1902 B, 101.
1904 F, 24 ("Brontotherium sp." This species?).
Osborn and Wortmann 1895 A, 346, pls. viii, ix; text-figs. 1-3 (Titanotherium. This species?).
Schlosser, M. 1898 C, 372 (Titanotherium); 373 (Brontops).
Schuchert and Levene 1927 A, 348 (Brontops).
Scott, W. B. 1913 A, 309, fig. 160 (Titanotherium).
Trouessart, E. L. 1905 A, 621.
Williams, H. S. 1897 A, 679, fig. ("titanotherium").
Woodward, A. S. 1898 B, 331, fig. 190 (Titanotherium).
1923 C, 30, fig. 12 (Titanotherium).
Zittel and Schlosser 1911 A, 466, fig. 648 (Titanotherium).
1923 A, 552, fig. 687 (Brontops).
Lower Oligocene (Chadron); South Dakota, Nebraska.

Megacerops? selwynianus Cope.

Hay, O. P. 1902 A, 635 (Brontotherium?).
Lambe, L. M. 1904 C, 28 (Menodus); 38, 50 (Megacerops).
1908 A, 10, 47, text-figs. 7, 8.
Matthew, W. D. 1909 C, 104.
Osborn, H. F. 1902 B, 99.
Trouessart, E. L. 1905 A, 621.
Lower Oligocene (Cypress Hills); Saskatchewan.

Megacerops tichoceras Scott and Osborn.

Hay, O. P. 1902 A, 635 (Brontotherium).
Cook, H. J. 1912 D, 34.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1920 A, 150.
Osborn, H. F. 1902 B, 99.
Trouessart, E. L. 1905 A, 621.
Lower Oligocene (Chadron); South Dakota.

Megacerops tyleri Lull.

Lull, R. S. 1905 D, 445, pls. iii, iv; text-figs. 1, 2.
Lower Oligocene (White River); South Dakota.

BRONTOTHERIUM Marsh. Type *B. gigas* Marsh.

Hay, O. P. 1902 A, 634.
Abel, O. 1913 B, 755a.
Arldt, T. 1907 D, 253.
Boule, M. 1891 A, 34.
1902 B, 911.
Christman, E. S. 1921 A, 620, fig.
Delafontaine, M. 1875 A, 174.
Dollo, L. 1889 C, 679 (Brontotherium, Brontops).
Gregory, W. K. 1912 F, 285.
1921 B, 620, figs.
Haug, E. 1911 A, 1528.

Heilprin, A. 1887 A, 372.
Hoernes, R. 1886 A, 668.
Leche, W. 1887 A.
Lull, R. S. 1926 A, 461.
Lydekker, R. 1915 C, 621, fig. 2.
Matthew, W. D. 1909 C, 111.
O'Harra, C. C. 1910 A, 99, pl. xxxix.
Osborn, H. F. 1902 B, 92, 93, 94, 104, fig. 1.
1902 F, 626.
1905 H, 224, fig. 4.
1905 I, pl. iv, fig. 4; pl. v, fig. 4.
1907 G, 179, fig. 171.
1910 B, 209, 212, 213, 215, 556, fig. 100.
1912 B, 261, fig. 4.
1912 L, 187, fig. 4.
1914 B, 405.
1914 C, 406.
1915 B, 212, fig. 4.
1917 B, 263, 264, 270, fig.
Peterson, O. A. 1924 A, 416, 422 (Brontops).
Schlosser, M. 1898 C, 373 (Titanops).
Schuchert and Levene 1927 A, 347.
Trouessart, E. L. 1905 A, 622.
Wallace, A. R. 1876 A, 137.
Wasmuth, P. 1905 A, 63 (Brontops).

Brontotherium bucco (Cope).

Hay, O. P. 1902 A, 634.
Matthew, W. D. 1901 B, 356 (Symborodon).
1909 C, 104.
Osborn, H. F. 1902 B, 107.
Trouessart, E. L. 1905 A, 622.
Oligocene (Lower); Colorado.

Brontotherium curtum (Marsh).

Hay, O. P. 1902 A, 634.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 104.
Merrill, G. P. 1907 A, 62 (Titanops).
Osborn, H. F. 1902 B, 107 (Menodus peltoceras a syn.).
Trouessart, E. L. 1905 A, 622.
Oligocene (Lower); Colorado; (Chadron); Nebraska.

Brontotherium dolichoceras (Scott and Osborn).

Hay, O. P. 1902 A, 634.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1920 A, 150.
Osborn, H. F. 1902 B, 107 (Titanops medius a syn.).
Trouessart, E. L. 1905 A, 622.
Lower Oligocene (Chadron); Nebraska.

Brontotherium gigas Marsh.

Hay, O. P. 1902 A, 635.
Beddard, F. E. 1902 A, 265, fig. 137 (Titanotherium elatum).
Cook, H. J. 1912 D, 35.
Cooper, C. F. 1923 A, 49, 50, figs. 14, 24.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1910 A, 102, pl. xl.
1920 A, 112, fig. 51 (Titanotherium elatum).
Osborn, H. F. 1902 B, 107 (Titanops elatus a syn.).
1910 B, 209, fig. 97.
Scott, W. B. 1913 A, 311, fig. 162 (Tit. elatum).
Sternberg, C. H. 1913 A, 45.
Trouessart, E. L. 1905 A, 622.
Weber and Abel 1928 A, 673, fig. 459.
Oligocene (Lower); Colorado: (Chadron); Nebraska.

Brontotherium hatcheri Osborn.

Osborn, H. F. 1908 A, 615, fig. 20.
Gilmore, C. W. 1921 F, 66 ("Brontotherium").
O'Harra, C. C. 1920 A, 150.
Lower Eocene (Titanotherium); South Dakota.

Brontotherium hypoceras (Cope).

Hay, O. P. 1902 A, 635.
Matthew, W. D. 1901 B, 356 (Symborodon).
1909 C, 104.
Merrill, G. P. 1907 A, 26.
Osborn, H. F. 1902 B, 105 (Symborodon); 106 figs. 11-13 (Brontotherium).
Trouessart, E. L. 1905 A, 622.
Lower Oligocene (White River); Colorado.

Brontotherium leidyi Osborn.

Osborn, H. F. 1902 B, 105, figs. 9, 10, 12, 13.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 104.
Merrill, G. P. 1907 A, 26 (B. leidyi); 46 (Menops varians).
O'Harra, C. C. 1920 A, 150.
Trouessart, E. L. 1905 A, 622.
Lower Oligocene (Chadron); South Dakota, Nebraska.

Brontotherium medium (Marsh).

Hay, O. P. 1902 A, 635.
Merrill, G. P. 1907 A, 62 (Titanops).
Trouessart, E. L. 1905 A, 622 (Syn. of B. dolichoceras).
Lower Oligocene (White River); South Dakota.

Brontotherium? orphryas (Cope).

Hay, O. P. 1902 A, 635.
Trouessart, E. L. 1905 A, 622 (Miobasileus).
Lower Oligocene (White River); Colorado.

Brontotherium platyceras (Scott and Osborn).

Hay, O. P. 1902 A, 635.
Beddard, F. E. 1902 A, 265, fig. 137 (Titanotherium).
Cook, H. J. 1912 D, 35 (B. platycerus).
Gregory, W. K. 1912 E, 17, fig.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1921 A, 111, fig. 50.
Osborn, H. F. 1902 B, 108.
1904 F, 21.
Weber and Abel 1928 A, 686, fig. 473 (Titanotherium platiceras).

Trouessart, E. L. 1905 A, 622.
Lower Oligocene (Chadron); South Dakota, Nebraska.

Brontotherium ramosum (Osborn).

Hay, O. P. 1902 A, 635.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1920 A, 150.
Osborn, H. F. 1902 B, 108.
Trouessart, E. L. 1905 A, 622.
Lower Oligocene (Chadron); South Dakota, Nebraska.

Brontotherium sp. indet.

Figgins, J. D. 1925 A, 19, pl. Lower Oligocene; Colorado.

Superfamily TAPIROIDÆ, new name.

Unless otherwise indicated the authors, as quoted, use the name Tapiroidea.
Hay, O. P. 1902 A, 624.
Case, E. C. 1898 C, 833.
1899 B, 166.
Gill, T. 1872 B, 12 (Tapiroidea); 86 (Lophiodontoidea).
Gregory, W. K. 1920 A, 247.
Gidley, J. W. 1912 B, 179.
Haeckel, E. 1873 A, 554 (Tapiromorpha).
Hay, O. P. 1914 A, 209.
Osborn, H. F. 1910 B, 556.
Schlosser, M. 1901 B, 300.
Weber, M. 1904 A, 615, 624.
Weber and Abel 1928 A, 426, 659.
Winge, H. 1906 A, 71, 158 (Tapiridæ).

HELALETIDÆ Osborn.

Osborn, H. F. in Osborn and Wortman 1892 A, 127.
Inasmuch as the genera listed below are by some writers referred to the Lophiodontidæ, by others to the Helaletidæ, citations are made to the literature of both families.
Hay, O. P. 1902 A, 624 (Lophiodontidæ).
Abel, O. 1913 B, 730, 753a (Lophiodontinæ).
1914 A, 236 (Lophiodontinæ).
Ameghino, F. 1906 A, 326 (Lophiodontidæ).
1911 A, 23 ("lophiodontidés").
Arldt, T. 1912 A, 700 (Lophiodontidæ).
Beddard, F. E. 1902 A, 247 (Lophiodontidæ); 250 (Lophiodontinæ).
Case, E. C. 1899 B, 168 (Lophiodontidæ).
Chardin, T. 1922 A, 74 ("lophiodontidés").
Cuvier, G. 1825 A, II, 165-222, pls. i-xi (Lophiodon).
Depéret, C. 1904 B, 40 ("Helalétidés").
1911 A, 558 ("lophiodontidés").
1912 B, 769 ("lophiodontidés").
Gill, T. 1872 B, 12, 86 (Lophiodontidæ).
Holland and Peterson 1913 A, 201, 203 (Schizotheriinæ).
Matthew, W. D. 1909 C, 94, 98, 102, 104, 105, 111 (Lophiodontidæ).
1909 D, 301 (Lophiodontidæ).
Matthew, W. D. 1914 B, 387 (Lophiodontidæ).
1915 A, 240 (Lophiodontidæ).
1921 D, 214 (Lophiodontidæ).
Matthew and Granger 1925 C, 4 (Helaletidæ).
1925 F, 1, 5 (Helaletidæ, Lophiodontidæ).
O'Harra, C. C. 1910 A, 92 (Lophiodontidæ).
Osborn, H. F. 1902 E, 359 (Lophiodontidæ); 360 (Helaletinæ).
1909 D, 41, 54 (Helaletinæ); 128 (Lophiodontidæ).
1910 B, 621 (Lophiodontidæ).
Peterson, O. A. 1919 A, 104 (Helaletidæ, Helaletinæ, Schizotheriinæ).
Sauvage, H. E. 1882 A, 105 (Lophiodontidæ).
Scharff, R. F. 1911 A, 353 (Lophiodontidæ).
Schlosser, M. 1898 C, 374 (Lophiodontidæ).
Scott, W. B. 1913 A, 280, 291, 319, 684 (Lophiodontidæ).
Trouessart, E. L. 1905 A, 630 (Lophiodontinæ).
Weber, M. 1904 A, 615, 624 (Lophiodontidæ); 624 (Helaletidæ).
Weber and Abel 1928 A, 660.
Winge, H. 1906 A, 156 (Helaletini).
Zittel and Schlosser 1911 A, 447 (Lophiodontinæ).
1923 A, 532 (Lophiodontinæ).

HEPTODON Cope. Type *Lophiodon ventorum* Cope.

Hay, O. P. 1902 A, 625.
Case, E. C. 1899 B, 168.
Chardin, T. 1922 A, 83.
Depéret, C. 1902 D, 1281.
1904 A, 580.
1904 B, 40.
1911 A, 565.
1912 B, 770.
Gregory, W. K. 1910 A, 451, 452.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
1915 K, 473.
1924 E, 749.
1926 C, 170, fig. 26.
1928 B, 967, 979, fig. 15.
Osborn, H. F. 1902 E, 360.
1909 D, 38, 41, 46.
1910 B, 124, 127, 135, 557.
1912 G, 236, fig. 3.
Palmer, T. S. 1904 A, 320, 938.

Peterson, O. A. 1919 A, 103, 111, 125.
Schlosser, M. 1898 C, 374.
1899 P, 313.
1899 Q, 315.
Scott, W. B. 1913 A, 275, 291, 327.
Seeley, H. G. 1886 A, 476.
Stehlin, H. G. 1903 A, 63, 67, 151.
Trouessart, E. L. 1905 A, 630.
Troxell, E. L. 1922 C, 370.
Weber, M. 1904 A, 624.
Weber and Abel 1928 A, 660.
Winge, H. 1906 A, 156.
Wortman, J. L. 1903 A, xv, 431.
Zittel and Schlosser 1911 A, 447.
1923 A, 532, 666, 668.

Heptodon calciculus Cope.

Hay, O. P. 1902 A, 625.
Gregory, W. K. 1910 A, 393, figs. 23, 24.
Matthew, W. D. 1909 C, 94.
Osborn, H. F. 1904 F, 10.
Sinclair and Granger 1911 A, 91.
Stehlin, H. G. 1903 A, 67.
Lower Eocene (Wind River); Wyoming.

Heptodon posticus Cope.

Hay, O. P. 1902 A, 625.
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 94.
Lower Eocene (Wasatch); Wyoming.

Heptodon singularis (Cope).

Hay, O. P. 1902 A, 625.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 42 (Hyrachus).
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico.

Heptodon ventorum Cope.

Hay, O. P. 1902 A, 625.
Matthew, W. D. 1909 C, 94.
Sinclair and Granger 1911 A, 91, 108.
Stehlin, H. G. 1903 A, 67.
Lower Eocene (Wind River); Wyoming.

Heptodon sp. indet.

Douglass, E. 1903 A, 155, fig. 1.
Matthew, W. D. 1909 C, 99. Upper Eocene (Uinta); Montana.

HELALETES Marsh. Type *H. boops* Marsh.

Hay, O. P. 1902 A, 625.
Abel, O. 1922 C, 273.
Case, E. C. 1899 B, 168.
Cope, E. D. 1880 U, 154 (Tapirulus).
Depéret, C. 1904 A, 578, 580.
1904 B, 40.
1911 A, 565.
1912 B, 770.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 369.
Matthew, W. D. 1909 C, 102 (Helaletes, Dilophodon).
1915 A, 239.
1926 C, 170, fig. 26.
1928 B, 979, fig. 15.
Matthew and Granger 1925 E, 5.
1926 A, 3.
Osborn, H. F. 1910 B, 161, 557.
Palacký, J. 1903 B, 307.
Palmer, T. S. 1904 A, 313, 938.
Peterson, O. A. 1919 A, 104, 114.
Schlosser, M. 1898 C, 374.
1899 Q, 315.
Schmidt, O. 1886 A, 193.
Scott, W. B. 1913 A, 272.
Stehlin, H. G. 1903 A, 63, 65.
Terra, P. 1911 A, 313.
Trouessart, E. L. 1905 A, 631.
Troxell, E. L. 1922 C, 365.
Weber, M. 1904 A, 624.
Winge, H. 1906 A, 157.
Zittel and Schlosser 1911 A, 447.
1923 A, 532, 667.

Helaletes boops Marsh.

Hay, O. P. 1902 A, 625.
Matthew, W. D. 1909 C, 98.
Peterson, O. A. 1919 A, 104, 113, pl. xlii, figs. 1-9; pl. xliii, figs. 1-3.
Troxell, E. L. 1922 C, 365, 367, figs. 2, 3.
Middle Eocene (Bridger); Wyoming.

Helaletes nanus Marsh.

Hay, O. P. 1902 A, 626.
Matthew, W. D. 1909 C, 98.
Peterson, O. A. 1919 A, 106, 112.
Schlosser, M. 1898 C, 374.
Stehlin, H. G. 1903 A, 65.
Troxell, E. L. 1922 C, 365, 366, fig. 1.
Middle Eocene (Bridger); Wyoming.

Helaletes sp. indet.

Matthew, W. D. 1909 C, 98. Middle Eocene (Bridger); Wyoming.

DILOPHODON Scott. Type *D. minusculus* Scott.

Scott, W. B. 1883 A, 51.
Hay, O. P. 1902 A, 625 (Helaletes, in part).
Granger, W. 1909 A, 22.
Osborn, H. F. 1923 B, 1.
Palmer, T. S. 1904 A, 231, 938.
Peterson, O. A. 1919 A, 114.

Dilophodon minusculus Scott.

Hay, O. P. 1902 A, 626 (Helaletes).
Matthew, W. D. 1909 C, 98.
Osborn, H. F. 1904 F, 9.
Peterson, O. A. 1919 A, 104, 113, pl. xliv, fig. 5.
Troxell, E. L. 1922 C, 365.
Middle Eocene (Bridger); Wyoming.

EOMOROPUS Osborn. Type *Triplopus amarorum* Cope.

Osborn, H. F. 1913 B, 262, 264, figs. 5-8.
Abel, O. 1921 A, 282.
Cooper, C. F. 1922 A, 544.
Eastman, C. R. 1914 B, 689.
Gregory, W. K. 1920 A, 195.
Holland and Peterson 1913 A, 202, 204.
Lydekker, R. 1915 C, 622.
Matthew, W. D. 1917 A, 576.
1926 C, 170, fig. 26.
1928 B, 979, fig. 15.
Peterson, O. A. 1919 A, 139.
Scott, W. B. 1913 A, 291, 357.
Zittel and Schlosser 1923 A, 554.

Eomoropus amarorum (Cope).

Hay, O. P. 1902 A, 640 (Triplopus).
Abel, O. 1920 B, 28.
Depéret, C. 1911 A, 565 (Triplopus).
1912 B, 770 (Triplopus).
Granger, W. 1909 A, 22 (Not Triplopus).
Holland and Peterson 1913 A, 216.
Matthew, W. D. 1909 C, 97 (This genus?).
Osborn, H. F. 1913 B, 261 (Triplopus); 266, figs. 1, 3-8 (Eomoropus).
Peterson, O. A. 1919 A, 139.
Schlosser, M. 1901 E, 150 (Triplopus).
Zittel and Schlosser 1923 A, 554 (Triplopus).
Middle Eocene (Washakie); Wyoming.

Eomoropus annectens Peterson.

Peterson, O. A. 1919 A, 139, pl. xxxvi, fig. 2.
Upper Eocene (Uinta); Utah.

DESMATOTHERIUM Scott. Type *D. guyotii* Scott.

Scott, W. B. 1883 A, 46.
Hay, O. P. 1902 A, 625 (Helaletes, in part).
Granger, W. 1909 A, 22.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 98.
1925 F, 1, figs. 1-3.
1926 C, 170, fig. 26.
Matthew and Granger 1924 A, 7.
1925 E, 5.
1925 F, 5.
Osborn, H. F. 1910 B, 557.
1923 B, 1.
Palmer, T. S. 1904 A, 223, 938.
Peterson, O. A. 1919 A, 127, 128.

Desmatotherium guyotii Scott.

Scott, W. B. 1883 A, 42, pl. viii.
Hay, O. P. 1902 A, 625 (Helaletes).
Matthew, W. D. 1909 C, 98.
Matthew and Granger 1925 E, 4.
1925 F, 1.
Osborn, H. F. 1904 F, 9.
1923 B, 2.
Peterson, O. A. 1919 A, 127, pl. xliv, fig. 6.
Stehlin, H. G. 1903 A, 63.
Troxell, E. L. 1922 C, 365.
Middle Eocene (Washakie); Wyoming.

COLODON Marsh. Type *C. luxatus* Marsh.

Hay, O. P. 1902 A, 626.
Case, E. C. 1899 B, 168.
Depéret, C. 1904 A, 578.
1904 B, 40.
1911 A, 565.
1912 B, 770.
Douglass, E. 1905 A, 211.
Earle, C. 1898 B, 115.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1901 B, 369.
1909 C, 111.
1915 K, 420.
1917 A, 576.
1926 C, 168, 169, fig. 26.
1928 B, 979, fig. 15.
Matthew and Granger 1925 C, 5.
1925 E, 4.
Osborn, H. F. 1902 E, 361.
1910 B, 16, 213, 220, 223, 557.
Palacký, J. 1903 B, 307, 311.
Palmer, T. S. 1904 A, 196, 938.
Peterson, O. A. 1919 A, 115, 126.
Schlosser, M. 1898 C, 374, 375.
1899 P, 313.
1899 Q, 315, 316.
Scott, W. B. 1913 A, 257, 326.
Sinclair, W. J. 1924 A, 121.
Stehlin, H. G. 1903 A, 63, 64.
Trouessart, E. L. 1905 A, 633 (Mesotapirus).
Weber, M. 1904 A, 624.
Weber and Abel 1928 A, 660.
Winge, H. 1906 A, 157.
Zittel and Schlosser 1911 A, 448.
1923 A, 532, 670.

Colodon cingulatus Douglass.

Douglass, E. 1901 B, 243, 255.
1903 A, 150.
Matthew, W. D. 1909 C, 105.
Trouessart, E. L. 1905 A, 633 (C. angulatus).
Middle Oligocene (White River); Montana.

Colodon copei (Osborn and Wortman).

Hay, O. P. 1902 A, 614 (Miohippus).
Ameghino, F. 1904 A, 152 (Mesohippus).
O'Harra, C. C. 1920 A, 154.
Osborn, H. F. 1904 B, 168, 177 (Colodon, pelvis).
1918 A, 37, 50.
Schlosser, M. 1899 R, 317 (Mesohippus).
Veith, A. 1912 A, 12 (Mesohippus).
Oligocene (White River); South Dakota.

Colodon dakotensis Osborn and Wortman.

Hay, O. P. 1902 A, 626.
Cook, H. J. 1912 D, 37.
Matthew, W. D. 1909 C, 105.
Osborn, H. F. 1904 F, 10.
Peterson, O. A. 1920 A, 402, 435 (Cænopus).
Schlosser, M. 1898 C, 375.
1899 Q, 315

Sinclair, W. J. 1924 A, 102.
Trouessart, E. L. 1905 A, 633 (Mesotapirus).
Middle Oligocene (Brule); South Dakota, Nebraska.

Colodon longipes Osborn and Wortman.

Hay, O. P. 1902 A, 626.
Cook, H. J. 1912 D, 37.
Matthew, W. D. 1909 C, 105.
Osborn, H. F. 1904 B, 168, 176.
Peterson, O. A. 1919 A, 115.
Schlosser, M. 1898 C, 375.
Trouessart, E. L. 1905 A, 633 (Mesotapirus).
Middle Oligocene (Brule); South Dakota, Nebraska.

Colodon luxatus Marsh.

Hay, O. P. 1902 A, 626.
Oligocene (White River); South Dakota.

Colodon occidentalis (Leidy).

Hay, O. P. 1902 A, 626.
Cook, H. J. 1912 D, 34 (Colodon [Mesatapirus)].
Matthew, W. D. 1909 C, 104.
Matthew and Granger 1925 E, 4.
Merriam and Sinclair 1907 A, 186 (This genus and species?).
O'Harra, C. C. 1910 A, 92.
1920 A, 149.
Osborn, H. F. 1904 F, 10.
Schlosser, M. 1898 C, 375.
1899 Q, 315.
Sinclair, W. J. 1901 A, 702 (Lophiodon oregonensis).
1924 A, 102, 121, fig. 7.
Stehlin, H. G. 1905 A, 577.
Trouessart, E. L. 1905 A, 633 (Mesotapirus).
Oligocene (Lower); South Dakota, Montana?: (John Day); Oregon: (Chadron); Nebraska.

Colodon procuspidatus Osborn and Wortman.

Hay, O. P. 1902 A, 626.
Cook, H. J. 1912 D, 37.
Douglass, E. 1901 B, 255.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1920 A, 152 [C. (Mesotapirus)].
Schlosser, M. 1898 C, 375.
Sinclair, W. J. 1924 A, 121.
Trouessart, E. L. 1905 A, 633 (Mesotapirus).
Middle Oligocene (Brule); South Dakota, Nebraska.

HOMOGALAXINÆ Peterson.

Peterson, O. A. 1919 A, 116.

HOMOGALAX Hay. Type *Systemodon primævus* Wortman.

Unless otherwise indicated the authors, as quoted, use for this genus the name *Systemodon.*

Hay, O. P. 1902 A, 627 (Homogalax).
Ameghino, F. 1911 A, 23 (Sistemodon).
Arldt, T. 1907 D, 260.
Beddard, F. E. 1902 A, 250.
Bensley, B. A. 1901 C, 252.
Depéret, C. 1902 C, 345.
1904 B, 37.
Granger, W. 1914 A, 203.
Gregory, W. K. 1920 A, 195.
1927 J, 444, figs. 1, 2.
Haug, E. 1911 A, 1528.
Lydekker, R. 1903 D, 124.
1908 A, 507 (Homogalax).
Matthew, W. D. 1909 C, 102.
1915 K, 421, 473.
1924 E, 749.
1926 C, 153.
1928 B, 964, 967, 979, figs. 10, 15.
Osborn, H. F. 1907 G, 162, figs. 135, 172, 173.
1909 D, 38.
1910 B, 127, 556.
1912 G, 236, fig. 3.
Palacký, J. 1903 B, 306.
Palmer, T. S. 1904 A, 331, 941 (Homogalax).
Peterson, O. A. 1919 A, 103, 115, 125 (Homogalax).
Scharff, R. F. 1911 A, 228, 353.
Schlosser, M. 1899 Q, 315.
1902 J, 242.
Scott, W. B. 1913 A, 280, 324.
Stehlin, H. G. 1903 A, 68, 151.
Trouessart, E. L. 1905 A, 632 (Homogalax).
Troxell, E. L. 1922 B, 288 (Homogalax).
Winge, H. 1906 A, 157.
Wood, H. E. 1923 A, 600 (Homogalax).
1927 B, 13.
Woodward, A. S. 1898 B, 322.
Zittel and Schlosser 1911 A, 448.
1923 A, 533, 666 (Systemodon); 544 (Syn. of Orohippus).

Homogalax bridgerensis Troxell.

Troxell, E. L. 1922 B, 289, figs. 1-3.
Middle Eocene (Bridger); Wyoming.

Homogalax primævus (Wortman).

Hay, O. P. 1902 A, 627.
Loomis, F. B. 1907 B, 357 (Systemodon).
Matthew, W. D. 1909 C, 94 (Systemodon).
Osborn, H. F. 1904 F, 11 (Systemodon).
1907 G, 162, fig. 173 (Systemodon).
Stehlin, H. G. 1903 A, 68 (Systemodon).
Troxell, E. L. 1922 B, 289, 292.
Lower Eocene (Wasatch); Wyoming.

Homogalax protapirinus (Wortman).

Hay, O. P. 1902 A, 627.
Loomis, F. B. 1907 B, 357 (Systemodon).
Matthew, W. D. 1909 C, 94 (Systemodon).
Peterson, O. A. 1919 A, 118.
Stehlin, H. G. 1903 A, 68 (Systemodon).
Lower Eocene (Wasatch); Wyoming.

Homogalax semihians (Cope).

Hay, O. P. 1902 A, 627.

Loomis, F. B. 1907 B, 357 (Systemodon).
Matthew, W. D. 1909 C, 94 (Systemodon).
Osborn, H. F. 1907 G, 162, fig. 172 (This species?).
Troxell, E. L. 1922 B, 288 (Systemodon).
Lower Eocene (Wasatch); Wyoming.

Homogalax uintensis Troxell.

Troxell, E. L. 1922 B, 291, fig. 4.
Wood, H. E. 1927 B, 32.
Upper Eocene (Uinta); Utah.

ISECTOLOPHIDÆ Peterson.

Peterson, O. A. 1919 A, 115.

ISECTOLOPHINÆ Peterson.

Peterson, O. A. 1919 A, 116, 126.

PARISECTOLOPHUS Peterson. Type *Helaletes latidens* Scott and Osborn.

Peterson, O. A. 1919 A, 121.
Matthew, W. D. 1926 C, 170, fig. 26.
1928 B, 979, fig. 15.

Parisectolophus latidens (Scott and Osborn).

Hay, O. P. 1902 A, 627 (Isectolophus).
Matthew, W. D. 1909 C, 98 (Isectolophus).
Osborn, H. F. 1904 F, 9 (Isectolophus).
Peterson, O. A. 1919 A, 121, pl. xliv, figs. 2, 3.
Schlosser, M. 1899 Q, 315 (Isectolophus).
Stehlin, H. G. 1903 A, 66, 71 (Isectolophus).
Middle Eocene (Bridger); Wyoming.

ISECTOLOPHUS Scott and Osborn. Type *I. annectans* Scott and Osborn.

Hay, O. P. 1902 A, 627.
Abel, O. 1922 C, 273.
Ameghino, F. 1911 A, 23.
Beddard, F. E. 1902 A, 250.
Depéret, C. 1902 C, 345.
1904 A, 580.
1904 B, 37.
Earle, C. 1898 B, 115.
Gregory, W. K. 1920 A, 195.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
1909 D, 304.
1915 A, 239.
1926 C, 170, fig. 26.
1928 B, 979, fig. 15.
Matthew and Granger 1925 E, 5.
Osborn, H. F. 1910 B, 164, 170, 556.
Palacký, J. 1903 B, 306, 311.
Palmer, T. S. 1904 A, 352, 941.
Peterson, O. A. 1919 A, 104, 109, 116, 118, 121, 124.
Scharff, R. F. 1911 A, 353.
Schlosser, M. 1899 Q, 315.
Scott, W. B. 1913 A, 291.
Stehlin, H. G. 1903 A, 63, 66.
Trouessart, E. L. 1905 A, 633.
Zittel and Schlosser 1911 A, 448.
1923 A, 533, 667, 669.

Isectolophus annectens Scott and Osborn.

Hay, O. P. 1902 A, 627.
Matthew, W. D. 1909 C, 99.
Osborn, H. F. 1904 F, 9.
Peterson, O. A. 1919 A, 109, 116, pl. xliv, fig. 1; text-fig. 17.
Schlosser, M. 1899 Q, 316.
Stehlin, H. G. 1903 A, 63, 66.
Upper Eocene (Uinta); Utah.

Isectolophus scotti Peterson.

Peterson, O. A. 1919 A, 117, 120, pl. xxxiv, fig. 4.
Upper Eocene (Uinta); Utah.

SCHIZOLOPHODON. Type *Schizolophodon cuspidens* Peterson.

Peterson, O. A. 1919 A, 115, 122.

Schizolophodon cuspidens Peterson.

Peterson, O. A. 1919 A, 122, pl. xliv, fig. 4.
Upper Eocene (Uinta); Utah.

TAPIRIDÆ Gray.

Gray, J. E. 1821 A, 306 (Taperidæ).
Hay, O. P. 1902 A, 626.
Abel, O. 1912 F, 232 ("tapire").
1913 B, 729, 730, 753.
1914 A, 236.
1919 A, 854.
1920 A, 451 ("tapire").
1922 C, 273 ("tapire").
Ameghino, F. 1889 A, 1025.
1911 A, 23 ("tapiridés").
Anderson, R. J. 1912 D, 253.
Arldt, T. 1907 D, 684.
1911 A, 222 ("tapire").
1912 A, 700.
Beddard, F. E. 1902 A, 250.
Bonaparte, C. L. 1832 A, 293 (Tapirina).
Burmeister, H. 1879 B, 484.
Carus, V. 1875 A, 161 (Tapirina).
Case, E. C. 1899 B, 167.
Cope, E. D. 1880 U, 152.
1887 N, 994 (Protapirinæ).
Cuvier, F. 1825 A, 216 ("tapirs").

Cuvier, G. 1805 A ("tapirs").
  1825 A, II, 145-175, pls. i-v ("tapirs").
Depéret, C. 1902 A, 323 ("tapirs").
  1902 C, 345 ("tapirs").
  1904 B, 24 ("tapiridés").
  1905 A, 1518 ("tapiridés").
  1906 A, 619 ("tapiridés").
  1906 B, 1120 ("tapiridés").
  1908 A, 169, 303.
  1909 A, 141 ("tapiridés").
  1911 A, 577 ("tapiridés").
  1912 A, 708 ("tapiridés").
Doran, A. H. G. 1878 A, 420, pl. lxi.
Earle, C. 1898 B, 115 ("tapiroids").
Flower, W. H. 1892 A, 46.
Frassetto, F. 1903 A, 310.
Gadow, H. 1916 A, 545 ("tapirs").
Gaudry, A. 1902 A, 344 ("tapiridés").
Gervais, P. 1859 A, 102 ("tapiridés").
Ghigi, A. 1900 B, 100 ("tapiri").
Gill, T. N. 1885 B, 21.
Gray, J. E. 1869 A, 252.
Gregory, W. K. 1927 A, 601 ("tapirs").
  1927 F, 392 ("tapirs").
  1927 J, 440, 445, figs. 1, 2 ("tapirs")
Hay, O. P. 1912 D, 589.
  1923 A, 5, 203, 312.
  1924 D, 384.
  1927 E, 77 ("tapirs").
Hescheler, K. 1906 A, 31 ("tapirs").
Hoernes, R. 1886 A, 666.
Hogben, L. T. 1919 A, 75.
Huxley, T. H. 1870 F, 542.
Jacobi, A. 1921 A, 200 ("tapir").
Kampfen, P. N. 1905 A, 578.
Knottnerus-Meyer, T. 1907 A, 5, 97, 102.
Lavocat, A. 1885 A, 48 ("tapirs").
Leunis and Ludwig 1883 A, 273 (Tapirina).
Lobley, J. L. 1908 A, 204.
Lull, R. S. 1918 C, 136 ("tapirs").
Lydekker, R. 1903 D, 123 ("tapirs").
  1907 B, 5.
  1916 A, 39.
Matthew, W. D. 1909 C, 136.
  1909 D, 302.
  1910 H, 477 ("tapirs").
  1913 B, 291.
  1914 B, 387.
Matthew, W. D. 1914 G, 234.
  1915 A, 238, fig. 19.
  1915 K, 449, fig. 17 ("tapirs").
  1921 D, 214.
  1926 C, 168, 170, fig. 26 ("tapirs").
  1928 B, 968, 980 ("tapirs").
O'Harra, C. C. 1910 A, 92, 127.
  1920 A, 99.
Osborn, H. F. 1905 I, 107.
  1906 C, 776.
  1907 G, 86, 176, 180 ("tapirs").
  1909 D, 136.
  1910 B, 505, 633.
  1924 K, 275 ("tapirs").
Palacký, J. 1903 B, 310 ("tapiriden").
Palmer, T. S. 1904 A, 773, 941.
Pictet, F. J. 1853 A, 301 ("tapiroides").
Puccioni, N. 1908 A, 49 ("tapiri").
Reynolds, S. H. 1897 A, 429.
Scharff, R. F. 1911 A, 228, 352.
Schlosser, M. 1899 P, 313 ("tapirs").
  1899 Q, 314 ("tapirs").
  1911 A, 165 ("tapirs").
Schwarz, E. 1924 A, 420 ("tapirs").
Scott, W. B. 1896 D, 57, 59 ("tapirs").
  1913 A, 291, 319, 691.
  1916 A, 117 ("tapirs").
  1917 A, 123, 134 ("tapirs").
  1928 A, 330 ("tapirs").
Sellards, E. H. 1918 A, 58.
Stehlin, H. G. 1903 A, 152 ("tapiriden").
  1916 B, 1531 ("tapiriden").
Terra, P. 1911 A, 313.
Thomas, O. 1914 A, 417 ("tapirs").
Tornier, G. 1888 A, 303 ("tapiriden").
Trouessart, E. L. 1892 A, 188.
  1905 A, 630.
Vicq-d'Azyr, F. 1792 A, cvii (Tapiri).
Wallace, A. R. 1876 A, II, 212.
Wallisch, W. 1906 A, 310 ("tapiren").
Weber, M. 1904 A, 611, 615, 624.
Weber and Abel 1928 A, 426, 650, 651, 659.
Winge, H. 1906 A, 71, 158 (Tapirini).
Wright, G. F. 1908 A, 34 ("tapirs").
Wright, R. R. 1883 A, 235.
Zittel and Schlosser 1911 A, 446.
  1923 A, 530, 602, 667.

TAPIRINÆ Gray.

Gray, J. E. 1867 A, 878.
Abel, O. 1913 B, 729, 753.
  1914 A, 236.
Arldt, T. 1912 A, 746.
Beddard, F. E. 1902 A, 250.
Trouessart, E. L. 1905 A, 632.
Zittel and Schlosser 1911 A, 448.
  1923 A, 533.

PROTAPIRUS Filhol. Type *P. priscus* Filhol = *P. filholi* Trouessart.

Hay, O. P. 1902 A, 627.
Abel, O. 1913 B, 753, fig. 97.
Ameghino, F. 1911 A, 19.
Depéret, C. 1904 A, 578.
  1904 B, 34.
  1912 A, 708.
Depéret and Douxami 1902 D, 34.
Gregory, W. K. 1920 A, 195.
Haug, E. 1911 A, 1528, 1705.
Matsumoto, H. 1921 A, 76, 88.
Matthew, W. D. 1901 B, 370.
Matthew, W. D. 1909 C, 111.
  1915 A, 238.
  1917 A, 576.
  1928 B, 979, fig. 15.
Merriam and Sinclair 1903 A, 95.
Osborn, H. F. 1907 G, 180, figs. 174, 177.
  1909 D, 68.
  1910 B, 190, 223, 227, 230, 556.
  1912 G, 246.
Peterson, O. A. 1919 A, 125.
Schlosser, M. 1899 Q, 314.

Scott, W. B. 1913 A, 257, 323.
Sinclair, W. J. 1901 A, 702.
Trouessart, E. L. 1905 A, 633.
Weber, M. 1904 A, 624.
Weber and Abel 1928 A, xxi, 659, fig. 448.
Winge, H. 1906 A, 157.
Zittel and Schlosser 1911 A, 448.
1923 A, 533, 671, 672, fig. 657.

Protapirus obliquidens Wortman and Earle.

Hay, O. P. 1902 A, 627.
Cook, H. J. 1912 D, 38.
Depéret, C. 1904 B, 36.
Matthew, W. D. 1909 C, 108.
O'Harra, C. C. 1910 A, 93, 129.
1920 A, 153.
Osborn, H. F. 1904 F, 11.
Peterson, O. A. 1919 A, 125.
Schlosser, M. 1899 P, 314.
1899 Q, 314, 315.
Upper Oligocene (Brule); Nebraska, South Dakota.

Protapirus robustus Sinclair.

Sinclair, W. J. 1901 A, 703, fig. 1.
Frick, C. 1921 A, 313.
Matthew, W. D. 1909 C, 108.
Merriam and Sinclair 1907 A, 186, 191, 192.
Upper Oligocene (John Day); Oregon.

Protapirus simplex Wortman and Earle.

Hay, O. P. 1902 A, 628.
Cook, H. J. 1912 D, 37.
Matthew, W. D. 1901 B, 369.
1909 C, 106.
O'Harra, C. C. 1910 A, 93.
1920 A, 152.
Peterson, O. A. 1919 A, 125.
Schlosser, M. 1899 Q, 314, 315.
Middle Oligocene (Brule); Nebraska.

Protapirus validus Hatcher.

Hay, O. P. 1902 A, 628.
Cook, H. J. 1912 D, 38.
Depéret, C. 1904 B, 34.
Matthew, W. D. 1909 C, 108.
O'Harra, C. C. 1910 A, 93, 129.
1920 A, 153, pl. xiv.
Osborn, H. F. 1904 F, 11.
Peterson, O. A. 1919 A, 125.
Schlosser, M. 1899 Q, 314.
Scott, W. B. 1913 A, 323, 324, 325, figs. 169-171.
Upper Oligocene (Brule); South Dakota, Nebraska.

Protapirus sp. indet.

Merriam and Sinclair 1907 A, 191, 192. Oligocene (John Day); Oregon.

TAPIRAVUS Marsh. Type *T. validus* Marsh.

Hay, O. P. 1902 A, 628.
Ameghino, F. 1911 A, 19.
Haug, E. 1911 A, 1706.
Heilprin, A. 1887 A, 369.
Matsumoto, H. 1921 A, 88.
Matthew, W. D. 1909 C, 119.
1915 A, 239, 313.
1928 B, 979, fig. 15.
Osborn, H. F. 1909 D, 78, 80.
1910 B, 299, 352, 556.
Palmer, T. S. 1904 A, 662, 941.
Schlosser, M. 1899 P, 314.
1899 Q, 315.
Schmidt, O. 1886 A, 193, fig. 31.
Scott, W. B. 1913 A, 291.
Trouessart, E. L. 1905 A, 633.
Zittel and Schlosser 1911 A, 448.
1923 A, 533.

Tapiravus rarus Marsh.

Hay, O. P. 1902 A, 628.
Matthew, W. D. 1909 C, 116.
Sinclair, W. J. 1901 A, 702.
"Lower Pliocene, east of Rocky Mountains."

Tapiravus validus Marsh.

Hay, O. P. 1902 A, 628.
Osborn, H. F. 1909 D, 20 [Protapirus (Tapiravus)].
Rhoads, S. N. 1903 A, 236.
Sinclair, W. J. 1901 A, 702.
Oligocene?; New Jersey.

Tapiravus sp. indet.

Matthew, W. D. 1901 B, 445 (This genus?); Colorado.
1909 C, 115. Miocene (Middle); Colorado.

TANYOPS Marsh. Type *T. undans* Marsh.

Hay, O. P. 1902 A, 628.
Palmer, T. S. 1904 A, 661, 941.

Tanyops undans Marsh.

Hay, O. P. 1902 A, 628.
"Miocene"; South Dakota.

TAPIRUS Brisson. Type *Hippopotamus terrestris* Linnæus.

Hay, O. P. 1902 A, 628.
Abel, O. 1912 D, 608 ("tapir").
1912 F, 242 ("tapir").
1920 A, 451 ("tapir").
Adams, C. C. 1905 A, 54 ("tapirs").
Adloff, P. 1910 B, 232 ("tapir").
Aichel, O. 1917 A, 105, fig. 3.
1919 A, 193 ("tapir").
Alezais, — 1902 A, 586 ("tapir").
Altmann, F. 1925 A, 108.
Ameghino, F. 1885 A, 203.
1889 A, 1025.
1904 A, 8, 118, 119.
1905 A, 28.
1911 A, 1 ("tapir").
1912 B, 172 ("tapirs").

Anderson, R. J. 1902 C, 785 ("tapirs").
1909 A, 745.
Arldt, T. 1907 B, 453.
1907 D, 684.
Baird, S. F. 1876 A, 357 ("tapir").
Bayer, F. 1897 A, 147, fig. 11 ("tapir").
Beddard, F. E. 1902 A, 250.
Beyer, H. 1908 A, 99 ("tapyr").
Boule and Thevenin 1920 A, 75.
Bradley, O. C. 1904 A, 17.
Bronn, H. G. 1848 B, 1216.
1849 A, 706.
Burmeister, H. 1879 B, 485.
Case, E. C. 1899 B, 167.
Chamberlin, T. C. 1919 A, 316 ("tapirs").
Cleland, J. 1863 B, 301 ("tapir").
Cope, E. D. 1880 U, 158.
1895 G, 596.
Cuvier, F. 1825 A, 216, pl. lxxxviii ("tapirs").
Cuvier, G. 1804 C, 122.
1804 D, 132.
Dall and Harris 1892 A, 284.
Depéret, C. 1902 B, 344 ("tapir").
1904 B, 13 ("tapirs").
1909 A, 141.
Doran, A. H. G. 1878 A, 420, pl. lxi.
Eggeling, H. 1904 A, 99.
Eimer, G. H. T. 1901 A, 262 ("tapir").
Eudes-Deslongchamps, E. 1842 B, 19, pls. ii, iii.
Falconer, H. 1863 A, 63.
Fischer, E. 1903 A, 695 ("tapir").
Fischer, J. B. 1829 A, 409.
Flower, W. H. 1892 A, 48.
Foote, J. S. 1916 A, 108, pl. xii.
Frassetto, F. 1903 A, 310.
1915 A, 64.
Frech, F. 1907 A, 306 ("tapir").
Frech and Geinitz 1903 A, 36.
Gaudry, A. 1902 A, 344 ("tapir").
Gervais, P. 1852 A, 49.
1853 B, 35 ("tapir").
1859 A, 103.
Ghigi, A. 1900 A, 17.
Gidley, J. W. 1912 C, 19 ("tapirs").
Giebel, C. G. 1855 A, 77, pl. xxxiii.
1883 A, pls. xxxiv, lxviii, lxxv, lxxxii.
Goldman, E. A. 1913 A, 66.
Goodsir, J. 1857 A.
Gregory, W. K. 1912 F, 288.
1920 A, 194, fig. 171.
1920 B, 272, figs. 6, 7, 14-16.
1927 J, 449, figs. 4, 5.
Hasse and Schwarck 1870 A, 139, figs. 46-48.
Hay, O. P. 1910 D, 372 ("tapirs").
1912 B, 12, fig. 9 ("tapir").
1912 D, 590, text-figs. 36-37.
1916 E, 54 ("tapirs").
1918 B, 10.
1919 A, 311 ("tapirs").
1926 D, 359.
1926 E, 389.
1928 B, 237, 238 ("tapirs").
Heilprin, A. 1887 A, 28, 369.
Hoernes, R. 1886 A, 666.
Holland, W. J. 1912 B, 749.
Huxley, T. H. 1863 F, 580 ("tapir").
Ihering, H. 1909 A, 285 ("tapire").
Jacobi, A. 1921 A, 201, figs. 1, 6.
Kampfen, P. N. 1905 A, 578, figs. 64, 65.
Kingsley, J. S. 1925 A, 298, fig. 321.
Knottnerus-Meyer, T. 1907 A, 5, 102, fig. ("tapir").
Köstlin, O. 1844 A ("tapir").
Lankester, E. R. 1908 A, 333.
Lataste, F. 1887 A, 271 ("tapir").
Leche, W. 1887 A, pls. xciii, xcvi.
1900 A, 991.
1902 A, 43.
1921 A, 68.
Le Damany, P. 1906 B, 164 ("tapir").
Ledouble, A. F. 1906 A, 550 ("tapir").
Leunis and Ludwig 1883 A, 273.
Lydekker, R. 1916 A, 41.
Major, C. J. F. 1880 A, 23 ("tapir").
Matsumoto, H. 1921 A, 76, 88.
Matthew, W. D. 1910 G, 155.
1915 A, 239.
1917 A, 576 ("tapir").
1926 C, 166 ("tapir").
1928 B, 979, fig. 15.
Meckel, J. F. 1823 A, 6 ("tapir").
1825 A ("tapir").
Osborn, H. F. 1907 G, 180, figs. 172, 174.
1909 D, 87, 89.
1910 B, 663.
Owen, R. 1845 B, 604, pl. xcvi, figs. 4, 5.
1866 B, 449, fig. 301.
1868 A, 911.
Palacký, J. 1903 B, 310.
Palmer, T. S. 1904 A, 663, 941.
Pander and Alton 1821 B, 16, pl. x ("tapir").
Paulli, S. 1900 A, 181, figs. 1, 2.
Pictet, F. J. 1853 A, 301.
Retzius, A. 1849 A, 655.
Reynolds, S. H. 1897 A, 471, 487, 501, 508, 524, figs. 106, 110.
Rosenberg, A. 1873 A, 135 ("tapir").
Scharff, R. F. 1911 A, 153, 352.
Schlosser, M. 1902 J, 214.
Schmidt, O. 1886 A, 190.
Scott, W. B. 1913 A, 691.
Sefve, I. 1914 A, 247.
Sellards, E. H. 1914 A, 162.
Spencer, J. W. 1898 A, 27 ("tapir").
Stehlin, H. G. 1903 A, 20, 62, 152 ("tapir").
1905 A, 569, figs. 46, 49, 50, 53.
Taschenberg, O. 1899 A, 4694.
Terra, P. 1911 A, 314.
Tomes, C. S. 1878 A, 34 ("tapir").
Trouessart, E. L. 1905 A, 634.
Turner, H. N. 1850 B, 102 ("tapir").
Van den Broeck, A. J. P. 1912 A, 782.
Wallace, A. R. 1876 A, I, 502.
Weber, M. 1904 A, 611, 624.
Weber and Abel 1928 A, 637, 640, 652, 659, figs. 434, 436, 442.
Weber and Burlet 1927 A, figs. 49, 114, 194.
Wilder, B. 1868 A, 422, pl. xi, figs. 2, 8.
1872 B, 320.
Wilson, T. 1901 A, 315 ("tapir").
Winge, H. 1906 A, 158.
Woodward, A. S. 1898 B, 321.
Wright, G. F. 1908 B, 187 ("tapir").
Wright, R. R. 1883 A, 235, figs. 122-125.

Zietzschmann, O. 1917 A, 440, pl. xxv.
Zittel and Schlosser 1911 A, 448.
  1923 A, 531, 533, 681, fig. 655.

Tapirus haysii Leidy.

Hay, O. P. 1902 A, 628.
Abel, O. 1926 B, 81 (This species?).
Allen, G. M. 1926 A, 453.
Baker, F. C. 1920 A, 473.
Boule and Thevenin 1920 A, 77.
Cope, E. D. 1867 F, 138 ("tapir").
  1895 G, 597.
Diener, C. 1912 A, 216.
Foster, J. W. 1869 A, 254.
Frech and Geinitz 1903 A, 36 (T. hayesi).
Frick, C. 1921 A, 313.
Gidley, J. W. 1911 A, 436.
  1913 B, 96 (This species?).
  1927 E, 274.
Hay, O. P. 1912 D, 590, pl. ii; text-figs. 38, 39.
  1917 E, 45 (This species?).
  1923 A, 497.
  1924 D, 134, 155, 249.
  1927 D, 313.
  1928 C, 425, 428.
Lee, W. T. 1907 B, 215 (T. haysii?).
Leidy, J. 1859 J, 181 ("larger tapir").
  1869 A, 391.
Loomis, F. B. 1924 C, 506.
MacCurdy, G. G. 1916 A, 61 (This species?).
Manigault, G. E. 1887 A, 130 ("tapir").
Mercer, H. C. 1894 B, 356.
  1897 A, 444 ("tapir").
Merriam, J. C. 1912 C, 221.
  1913 A, 171.
Osborn, H. F. 1910 B, 469, 484.
Rhoads, S. N. 1903 A, 236.
Richardson, G. B. 1907 A, 32 (T. haysii?).
  1909 A, 44, fig. 8 (T. haysii?).
Ruschenberger and Tryon 1879 A, 89.
Scharff, R. F. 1911 A, 352.
Schlosser, M. 1902 H, 142.
Schmidt, E. 1872 A, 251, 254 (T. americanus. This species?).
Scott, W. B. 1913 A, 201, 322.
Sellards, E. H. 1916 B, 104 (This species?).
  1916 C, 139, 149 (This species?).
  1916 D, 616 (This species?).
  1918 A, 59.
Shimek, B. 1902 A, 285.
Simpson, G. G. 1928 H, 2 (This species?).
Trouessart, E. L. 1905 A, 635 (Tapirella haysi).
Tuomey, M. 1848 A, 165, 166 ("tapir").
Wright, G. F. 1911 A, 282 ("tapir." This species?).
  Pleistocene (Early and Middle); Indiana, Virginia, South Carolina, Georgia, Florida, Mississippi, Tennessee, Kentucky, Texas?, California?.

Tapirus haysii californicus J. C. Merriam.

Merriam, J. C. 1913 A, 170, figs. 1, 2.
Frick, C. 1921 A, 311.
Hay, O. P. 1927 D, 76, 77.
Lydekker, R. 1914 A, 636.
Sellards, E. H. 1918 A, 59, 65.
  Pleistocene (Auriferous gravels); California: Pliocene (late) or Pleistocene (early); Oregon.

Tapirus merriami Frick.

Frick, C. 1921 A, 311, figs. 26-28.
Hay, O. P. 1927 D, 76, 162.
  Early Pleistocene (Bautista); California.

Tapirus tarijensis Ameghino.

Ameghino, F. 1902 C, 247, pl. v, figs. 22*a*, 22*b*.
Freudenberg, W. 1922 A, 5 (This species?).
Trouessart, E. L. 1905 A, 634.
  Pleistocene; Argentina, Mexico?.

Tapirus tennesseæ Hay.

Hay, O. P. 1920 B, 88, pl. iii, figs. 4-11.
  1923 A, 209, 395.
  Pleistocene (Middle); Tennessee.

Tapirus terrestris (Linnæus).

Hay, O. P. 1902 A, 628.
Agassiz, L. 1859 B, 186 ("tapir").
Baker, F. C. 1920 A, 274.
Boule and Thevenin 1920 A, 75.
Carpenter, W. M. 1842 A, 390, fig. ("tapir").
Cope, E. D. 1867 F, 138 ("tapir").
Deussen, A. 1924 A, 108.
Falconer, H. 1863 A, 61 (T. americanus).
Fischer, J. B. 1829 A, 409 (T. americanum).
Foster, J. W. 1869 A, 254 (T. americanus).
Haug, E. 1911 A, 1886 (T. americanus).
Hay, O. P. 1912 D, 593, text-fig. 37*a*.
  1920 B, 89.
  1923 A, 497.
  1924 D, 155, 156 (T. americanus, T. terrestris).
  1928 C, 428.
Hilgard, E. W. 1860 A, 196 (T. americanus).
Holland, J. W. 1908 A, 231 (T. americanus?).
Holmes, F. S. 1859 A, 184 ("tapir").
  1860 A, iv, vi, vii ("tapir").
Leidy, J. 1859 J, 181 (T. americanus).
Lydekker, R. 1916 A, 41.
Matson and Clapp 1909 A, 136 (T. americanus).
Merriam, J. C. 1913 A, 171.
  1917 A, 439.
Osborn, H. F. 1910 B, 633 ("Tapirus").
Peterson, O. A. 1926 A, 273 (This species?).
Ruschenberger and Tryon 1879 A, 11, 89 (T. americanus).
Scott, W. B. 1913 A, 691.
Sellards, E. H. 1916 B, 94.
Shimek, B. 1902 A, 285 (T. americanus).
Spencer, J. W. 1895 A, 137 (T. americanus).
Whittlesey, C. 1866 A, 16 ("pachyderm").
  Recent; northern South America.

It is doubtful that the tapir remains which have been found in many localities in North America and identified as *Tapirus terrestris* and *T. americanus* really belong there.

Tapirus veroensis Sellards.

Sellards, E. H. 1918 A, 57, pls. i-iv.
Hay, O. P. 1920 B, 89.
  1923 A, 497.
  1927 C, 281 ("tapirs").

Sellards, E. H. 1916 F, 9 (T. haysii?).
1917 E, 198 ("tapir").
Pleistocene (Early); Florida.

Tapirus sp. indet.

Agassiz, L. 1851 B, 179 ("pachyderm"). Ohio.

Bancroft, H. H. 1875 A, 701. California.

Chamberlin, R. T. 1916 A, 35. Pleistocene; Florida.
1917 A, 675. Pleistocene; Florida.

Freudenberg, W. 1910 A, 6 (198) ("tapir"). Pleistocene; Mexico.
1921 A, 17, 38. Pleistocene; Mexico.

Frick, C. 1926 A, 106 (This genus?). Miocene (Pawnee Creek); Colorado.

Gidley, J. W. 1928 B, 16 ("tapir"). Pleistocene; Florida.

Hay, O. P. 1923 A, 497.
1924 D, 384. Pleistocene; Louisiana, Oklahoma, Texas.
1927 D, 313. Pleistocene; California.

Holmes, W. H. 1901 A, 423. Pleistocene; California.

Loomis, F. B. 1925 D, 436 ("tapir"). Pleistocene; Florida.
1926 B, 262. Pleistocene; Florida.

Mercer, H. C. 1896 A. Pleistocene; Tennessee.

Moore, C. 1905 A, 34. Pleistocene; Tennessee.

Osborn, H. F. 1925 D, 531 (This genus?). Pleistocene (La Brea); California.

Sellards, E. H. 1916 E, 15, 16. Pleistocene; Florida.
1917 A, 250. Pleistocene; Florida.

Sinclair, W. J. 1903 A, 711.
1904 B, 149.
1908 A, 112.

Stock, C. 1925 A, 30 (This genus??). Pleistocene (La Brea); California.

Troxell, E. L. 1917 C, 212.

Whitney, J. D. 1865 A, 252 ("tapir").

Superfamily RHINOCEROTOIDÆ, new name.

The writers, as quoted, employ the form Rhinocerotoidea.

Hay, O. P. 1902 A, 638.

Abel, O. 1910 E, 3.

Case, E. C. 1898 C, 833.

Cope, E. D. 1891 N, 86 (Rhinocerontoidea).

Cossmann, M. 1899 A, 81.

Gidley, J. W. 1912 B, 179.

Gill, T. 1872 B, 12, 85.

Gregory, W. K. 1920 A, 247.

Matthew, W. D. 1926 C, 170, fig. 26 (Rhinocerotoida).

Nat. Sci. 1898 A, 158.

O'Harra, C. C. 1910 A, 88.
1920 A, 91.

Osborn, H. F. 1905 H, 211, fig. 3.
1909 D, 135.
1910 B, 557.

Ringström, T. 1924 A, 150.

Schlosser, M. 1901 B, 300.

Weber, M. 1904 A, 615, 625.

Weber and Abel 1928 A, 426, 661, 666.

Weber and Burlet 1927 A, xv.

Winge, H. 1906 A, 71, 159, 162 (Rhinocerotidæ).

Wood, H. E. 1927 B, 6, 7.

HYRACODONTIDÆ Cope.

Cope, E. D. 1879 C, 228.

Hay, O. P. 1902 A, 638.

Abel, O. 1910 E, 3.
1913 B, 730, 753*a* (Hyracodontinæ).

Adloff, P. 1906 A, 115.

Case, E. C. 1898 C, 835 ("hyracodonts").

Cooper, C. F. 1924 B, 384.

Cossmann, M. 1899 A, 81.

Depéret, C. 1912 A, 708 ("hyracodontidés").

Dollo, L. 1885 C, 299.

Lydekker, R. 1898 C, 87.

Matthew, W. D. 1901 B, 371.
1909 C, 99, 102, 104, 105, 108, 111.
1909 D, 301.
1925 F, 7.
1926 C, 168, 170, fig. 26 ("hyracodonts").
1928 B, 968 ("hyracodonts").

Matthew and Granger 1925 F, 7.

O'Harra, C. C. 1910 A, 81, 91, 127.
1920 A, 92.

Nat. Sci. 1898 A, 158.

Osborn, H. F. 1902 A, 86 ("hyracodonts").
1902 E, 359.
1905 H, 211, fig. 3.
1905 I, 107.
1909 D, 127.
1910 B, 135, 156, 213, 223, 557.

Palmer, T. S. 1904 A, 747, 938.

Pavlow, M. 1915 A, 16.

Ringström, T. 1924 A, 151.

Roman, F. 1912 A, 77 ("hyracodontidés").

Schlosser, M. 1898 C, 375.
1901 B, 301, 303.

Scott, W. B. 1913 A, 291, 340.

Seeley, H. G. 1886 A, 474 (Hyrachodontidæ. Triplopodidæ).

Sinclair, W. J. 1922 A, 654 ("hyracodons").

Troxell, E. L. 1922 E, 38.

Weber, M. 1904 A, 615, 625.

Weber and Abel 1928 A, 426, 651, 662.

Winge, H. 1906 A, 71, 160 (Hyracodontini).

Wood, H. E. 1926 A, 238 ("hyracodonts").
1927 B, 6, 81.

Zittel and Schlosser 1911 A, 450.
1923 A, 535 (Hyracodontinæ).

HYRACHYINÆ Osborn.

Osborn, H. F. 1892, in Osborn and Wortman 1892 A, 93.

Hay, O. P. 1902 A, 638.

Osborn, H. F. 1902 E, 360.
1910 B, 557.

Palmer, T. S. 1904 A, 747, 938.

Wood, H. E. 1927 B, 6, 8, 22, 79.

HYRACHYUS Leidy. Type *H. agrestis* Leidy.

Leidy, J. 1871 C, 327.
Hay, O. P. 1902 A, 638.
Abel, O. 1910 E, 3, 25, 35.
Ameghino, F. 1904 A, 69 (Hyrachius).
Beddard, F. E. 1902 A, 262.
Cooper, C. F. 1924 B, 374.
Cope, E. D. 1880 U, 154.
Depéret, C. 1904 A, 577, 580.
1904 B, 16.
Earle, C. 1898 B, 116.
Flower, W. H. 1873 B, 99.
Gaudry, A. 1891 C, 40 (Hyrachius).
1896 A, 180.
1898 A, 128.
Granger, W. 1909 A, 22.
1910 A, 245.
Gregory, W. K. 1906 A, 13.
1912 F, 288.
1920 A, 194, fig. 169.
Haug, E. 1911 A, 1528 (Hyrachius).
Hoernes, R. 1886 A, 666.
Matthew, W. D. 1909 C, 102.
1915 K, 450.
1917 A, 576.
1924 E, 748.
1926 C, 168, 170, fig. 26.
1928 B, 967, 979, fig. 15.
Osborn, H. F. 1898 V, 206.
1905 L, 568.
1907 G, 162, figs. 135, 177, 178, 180.
1909 D, 49.
1910 B, 130, 135, 162, 164, 557, fig. 61.
1912 G, 236, fig. 3.
1919 B, 558.
1923 F, 214.
Palacký, J. 1903 B, 307.
Palmer, T. S. 1904 A, 343, 938.
Pavlow, M. 1915 A, 16 (Hyrachius).
Peterson, O. A. 1919 A, 128, 129, 137.
Schlosser, M. 1899 P, 313.
1900 H, 461.
1901 B, 301.
Schmidt, O. 1886 A, 193.
Schuchert and Levene 1927 A, 334, fig.
Scott, W. B. 1913 A, 683, figs. 182, 183.
Seeley, H. G. 1886 A, 476.
Stehlin, H. G. 1903 A, 63, 64.
Terra, P. 1911 A, 314, fig. 140.
Trouessart, E. L. 1905 A, 623.
Troxell, E. L. 1922 D, 34.
1922 E, 38.
1923 G, 134.
Wallace, A. R. 1876 A, I, 136.
Weber and Abel 1928 A, 660, 662, fig. 448.
Winge, H. 1906 A, 160.
Wood, H. E. 1927 B, 8, 11, 30.
Zittel and Schlosser 1911 A, 451.
1923 A, 425, 536, 666, 668, 669, figs. 527, 660.

Hyrachyus affinis (Marsh).

Hay, O. P. 1902 A, 638.
Troxell, E. L. 1922 D, 32, 33.
1922 E, 42, 43, 48, fig. 3.
Middle Eocene (Bridger); Wyoming.

Hyrachyus affinis gracilis Troxell.

Troxell, E. L. 1922 E, 43, 48, pl. i.
Marsh, O. C. 1922, in Troxell, E. L. 1922 E, 44 (H. bairdi).
Troxell, E. L. 1922 D, 33.
Wood, H. E. 1927 B, tab. vii.
Middle Eocene (Bridger); Wyoming.

Hyrachyus agrarius Leidy.

Leidy, J. 1871 C, 357.
Hay, O. P. 1902 A, 638.
Abel, O. 1910 E.
1912 F, 639.
1924 B, 20.
Beddard, F. E. 1902 A, 262.
Depéret, C. 1904 B, 21, fig. 5.
Gaudry, A. 1896 A, 181, fig. 175.
Matthew, W. D. 1909 C, 97.
Merrill, G. P. 1907 A, 42.
Osborn, H. F. 1904 F, 24.
Peterson, O. A. 1919 A, 128.
Schlosser, M. 1898 C, 375.
Toula, F. 1902 A, 24.
Troxell, E. L. 1922 E, 39.
Weber and Abel 1928 A, 662, fig. 450.
Williams, H. S. 1897 A, 681, fig. ("Hyrachyus").
Middle Eocene (Bridger); Wyoming.

Hyrachyus agrestis Leidy.

Leidy, J. 1871 C, 357.
Hay, O. P. 1902 A, 638 (H. agrarius, in part).
Merrill, G. P. 1907 A, 42.
Troxell, E. L. 1922 E, 39, 40.

This species was evidently intended to be the type of the genus. *H. agrarius* may be a synonym.

Middle Eocene (Bridger); Wyoming.

Hyrachyus? bairdianus (Marsh).

Hay, O. P. 1902 A, 638 (H. agrarius, in part).
Matthew, W. D. 1909 C, 97 (This genus?).
Troxell, E. L. 1922 E, 40, 48, figs. 1, 2.
Middle Eocene (Bridger); Wyoming.

Hyrachyus eximius Leidy.

Hay, O. P. 1902 A, 639.
Abel, O. 1922 C, 273, fig. 230.
Leuthardt, F. 1891 A, 113, pl. v, fig. 3 (Hyrachius).
Marsh, O. C. 1922 in Troxell, E. L. 1922 E, 46.
Matthew, W. D. 1909 C, 97.
Scott, W. B. 1913 A, 271, 344, figs. 140, 182.
Toula, F. 1902 A, 45.
Wood, H. E. 1927 B, tab. vii.
Middle Eocene (Bridger); Wyoming.

Hyrachyus grandis Peterson.

Peterson, O. A. 1919 A, 129, figs. 18, 19 (H. grande).
Upper Eocene (Uinta); Utah.

Hyrachyus imperialis Osborn, Scott and Speir.

Hay, O. P. 1902 A, 639.

Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Hyrachyus implicatus Cope.

Hay, O. P. 1902 A, 639.
Matthew, W. D. 1909 C, 97 (H. intermedius, H. crassidens).
Peterson, O. A. 1919 A, 138.
Middle Eocene (Bridger); Wyoming.

Hyrachyus modestus Leidy.

Hay, O. P. 1902 A, 639.
Matthew, W. D. 1909 C, 98 (Isectolophus?).
Merrill, G. P. 1907 A, 42 (Hyrachyus); 44 (Lophiodon).
Troxell, E. L. 1922 E, 42 (syn.? of H. affinis).
Middle Eocene (Bridger?); Wyoming.

Hyrachyus paradoxus Osborn, Scott and Speir.

Hay, O. P. 1902 A, 639.
Matthew, W. D. 1909 C, 97 (This genus?).
Middle Eocene (Bridger?); Wyoming.

Hyrachyus princeps Marsh.

Hay, O. P. 1902 A, 639.
Marsh, O. C. in Troxell, E. L. 1922 E, 46, 48.
Matthew, W. D. 1909 C, 97.
Peterson, O. A. 1919 A, 129, fig. 19.
Troxell, E. L. 1922 D, 36.
1922 E, 46, fig. 5.
Middle Eocene (Bridger); Wyoming.

Hyrachyus priscus Douglass.

Douglass, E. 1903 A, 146, 156, fig. 2 (This genus?).
Matthew, W. D. 1909 C, 99.
Upper Eocene (Uinta); Montana.

Hyrachyus sp. indet.

Douglass, E. 1903 A, 158, fig. 3. Eocene; Montana.
Hills, R. C. 1889 A, 221. Eocene (Huerfano); Colorado.
Matthew, W. D. 1909 C, 97. Middle Eocene (Bridger); Colorado: Upper Eocene (Uinta); Wyoming, Utah.
Wood, H. E. 1927 B, tab. vii.

METAHYRACHYUS Troxell. Type *M. bicornutus* Troxell.

Troxell, E. L. 1922 D, 31, 33.
1922 E, 38.
Weber and Abel 1928 A, 663.
Wood, H. E. 1927 B, 80.

Metahyrachyus bicornutus Troxell.

Troxell, E. L. 1922 D, 31, 33, figs. 4, 5.
Middle Eocene (Bridger); Wyoming.

COLONOCERAS Marsh. Type *C. agrestis* Marsh.

Hay, O. P. 1902 A, 639.
Dollo, L. 1885 C, 295 (Colonoceras).
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
1926 C, 170, fig. 26.
Osborn, H. F. 1910 B, 557.
Palmer, T. S. 1904 A, 196, 938.
Peterson, O. A. 1919 A, 128.
Schlosser, M. 1898 C, 376.
1901 B, 301.
Scott, W. B. 1913 A, 272, 346, 350.
Trouessart, E. L. 1905 A, 623.
Weber and Abel 1928 A, 663.
Wood, H. E. 1927 B, 80.

Colonoceras agrestis Marsh.

Hay, O. P. 1902 A, 639.
Gregory, W. K. 1920 A, 195.
Matthew, W. D. 1909 C, 97.
Peterson, O. A. 1919 A, 128.
Troxell, E. L. 1922 D, 31, figs. 1-3.
Weber and Abel 1928 A, 663.
Wood, H. E. 1927 B, 78.
Middle Eocene (Bridger); Wyoming.

HYRACODONTINÆ Osborn and Wortman.

Osborn and Wortman 1892 A, 93 (Hyracodontinæ, Triplopodinæ).
Hay, O. P. 1902 A, 639 (Triplopodinæ); 640 (Hyracodontinæ).
Abel, O. 1914 A, 238.
1919 A, 855.
Arldt, T. 1907 D, 260.
1912 A, 700.
Cope, E. D. 1881 G, 379 (Triplopodidæ).
1881 O, 340 (Triplopodidæ).
Depéret, C. 1904 B, 21 ("hyracodontidés").
1912 B, 770 ("hyracodontidés").
Osborn, H. F. 1902 E, 360 (Triplopodinæ).
1910 B, 557.
Palacký, J. 1903 B, 306 ("hyracodontiden").
Palmer, T. S. 1904 A, 775, 938 (Triplopodidæ).
Sauvage, H. E. 1882 A, 105 (Triplopidæ, Hyracodontinæ).
Scott, W. B. 1913 A, 341, 683.
Trouessart, E. L. 1905 A, 623.
Wood, H. E. 1927 B, 81 (Hyracodontinæ); 79, 83 (Triplopodinæ).

PROTHYRACODON Scott and Osborn. Type *Prothyracodon intermedius* Scott and Osborn.

Scott and Osborn 1887 A, 260.
Hay, O. P. 1902 A, 640 (Triplopus, in part).
Matthew and Granger 1925 C, 6.
Peterson, O. A. 1919 A, 131.
Weber and Abel 1928 A, 664.
Wood, H. E. 1927 B, 22.

Prothyracodon obliquidens Scott and Osborn.

Hay, O. P. 1902 A, 640 (Triplopus).
Matthew and Granger 1925 E, 7.
Peterson, O. A. 1919 A, 131, pl. xlvi, figs. 1-9.
Wood, H. E. 1927 B, 23, 35 (P. obliquidens, P. intermedium); tabs. *ib*, ii, v, vii.
Upper Eocene (Uinta); Utah.

TRIPLOPUS Cope. Type *T. cubitalis* Cope.

Hay, O. P. 1902 A, 640.
Abel, O. 1910 E, 25.
Beddard, F. E. 1902 A, 262.
Granger, W. 1909 A, 22.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 102.
1915 A, 240.
1926 C, 170, fig. 26.
1928 B, 979, fig. 15.
Matthew and Granger 1926 A, 3.
Osborn, H. F. 1910 B, 166, 168, 557.
1913 B, 261.
Palmer, T. S. 1904 A, 693, 938.
Schlosser, M. 1900 H, 462.
1901 B, 301.
Scott, W. B. 1913 A, 266, 272, 345.
Seeley, H. G. 1886 A, 476.
Trouessart, E. L. 1905 A, 623.
Weber, M. 1904 A, 625.
Weber and Abel 1928 A, 662.
Winge, H. 1906 A, 160.
Wood, H. E. 1927 B, 12.
Wright, R. R. 1883 A, 245.
Zittel and Schlosser 1911 A, 451.
1923 A, 536, 669.

Triplopus cubitalis Cope.

Hay, O. P. 1902 A, 640.
Granger, W. 1909 A, 22.
Gregory, W. K. 1920 A, 195.
Matthew, W. D. 1909 C, 97.
Osborn, H. F. 1913 B, 261.
Peterson, O. A. 1919 A, 132.
Scott, W. B. 1913 A, 343, fig. 181.
Weber and Abel 1928 A, 663, fig. 451.
Wood, H. E. 1927 B, 13.
Middle Eocene (Washakie); Wyoming.

Triplopus grangeri Wood.

Wood, H. E. 1927 B, 16, pls. ii, iv, tabs. *ia*, *ib*, ii.
Upper Eocene (Uinta); Utah.

EPITRIPLOPUS Wood. Type *Prothyracodon uintense* Peterson.

Wood, H. E. 1927 B, 19, pl. iii, fig. 9.

Epitriplopus uintensis (Peterson).

Peterson, O. A. 1919 A, 134, pl. xxxvi, fig. 1; pl. xlv; pl. xlvi, figs. 10-16 (Prohyracodon).
Matthew and Granger 1925 E, 7 (Prothyracodon).
Wood, H. E. 1927 B, 19, pl. iii, fig. 9, tabs. *ib*, ii.
Upper Eocene (Uinta); Utah.

ANCHISODON Cope. Type *A. quadriplicatus* Cope.

Hay, O. P. 1902 A, 640.
Palmer, T. S. 1904 A, 102, 938.
Trouessart, E. L. 1905 A, 624.
Wood, H. E. 1927 B, 68.

Anchisodon quadriplicatus Cope.

Hay, O. P. 1902 A, 640.
Matthew, W. D. 1909 C, 105.
Wood, H. E. 1927 B, 68 (Subhyracodon).
Middle Oligocene (Cedar Creek); Colorado.

HYRACODON Leidy. Type *H. nebraskensis* Leidy.

Hay, O. P. 1902 A, 640.
Abel, O. 1910 E, 3, 25.
1926 A, 225.
Anonymous 1898 B, 374.
Arldt, T. 1907 D, 260.
Cope, E. D. 1880 U, 152, 156.
Depéret, C. 1904 B, 37.
Douglass, E. 1905 A, 211.
1909 C, 283.
Flower, W. H. 1873 B, 100.
Gaudry, A. 1896 A, 178.
Gregory, W. K. 1920 A, 196, fig. 172.
Haug, E. 1911 A, 1528.
Heilmann, G. 1926 A, 160.
Heilprin, A. 1887 A, 368.
Knipe, H. R. 1912 A, 142, fig.
Knowlton, F. H. 1922 A, 21.
Koken, E. 1901 B, 223.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1928 A, 142.
Matthew, W. D. 1901 B, 369, 370, 373.
1909 C, 111.
1915 A, 240.
1924 E, 748.
1928 B, 979, fig. 15.
Matthew and Granger 1925 E, 6.
Nat. Sci. 1898 A, 158.
Osborn, H. F. 1910 B, 214, 220, 557, fig. 101.
Palmer, T. S. 1904 A, 343, 913.
Peterson, O. A. 1919 A, 132, 138.
Schlosser, M. 1898 C, 375.
1900 H, 460.
Scott, W. B. 1913 A, 252, 255, 266, 341, fig. 133.
Sinclair, W. J. 1922 A, 654 ("hyracodons").
1922 C, 62.
1924 A, 119.
Stehlin, H. G. 1905 A, 576.
Terra, P. 1911 A, 314.
Trouessart, E. L. 1905 A, 624.
Troxell, E. L. 1921 E, 34.
1922 D, 35.
1922 E, 39.
Wallace, A. R. 1876 A, I, 136; II, 214, 248.
Weber, M. 1904 A, 351, 625.

Weber and Abel 1928 A, 74, 662.
Winge, H. 1906 A, 160.
Wood, H. E. 1927 B, 8, 11, 26.
Zittel and Schlosser 1911 A, 451.
1923 A, 536, 671, fig. 661.

Hyracodon apertus Sinclair.

Sinclair, W. J. 1922 C, 73, fig. 3.
Abel, O. 1926 A, 228-245 (H. nebrascensis apertus).
Sinclair, W. J. 1924 A, 102.
Wood, H. E. 1927 B, 79, tab. vii.
Oligocene (Brule); South Dakota.

Hyracodon arcidens Cope.

Hay, O. P. 1902 A, 640.
Abel, O. 1914 A, 242, fig. 209 (H. priscidens).
1926 A, 227, 233 (H. priscidens); 227, 233, 236, 238 (H. arcidens).
Cope and Matthew 1915 A, pl. cii.
Lambe, L. M. 1905 B, 37, pl. i (H. priscidens).
1908 A, 10, 39, pl. iv, figs. 1-4 (H. priscidens).
Matthew, W. D. 1901 B, 357.
1909 C, 104 (H. priscidens); 105 (H. arcidens).
Sinclair, W. J. 1922 C, 67, fig. 1 (H. arcidens mimus, H. priscidens, H. selenidens as syns.).
1924 A, 102, 120.
Troxell, E. L. 1921 E, 35 (H. arcidens); 36, fig. 1 (H. arcidens mimus); 37, figs. 2, 3 (H. selenidens).
Wood, H. E. 1927 B, 27, 78.
Oligocene; Colorado, South Dakota, Assiniboia.

Hyracodon leidyanus Troxell.

Troxell, E. L. 1921 E, 38, figs. 4, 5.
Abel, O. 1926 A, 228-245, figs. 2, 3 (H. nebrascensis leidyanus).
Sinclair, W. J. 1922 C, 74, figs. 4, 5.
1924 A, 120.
Troxell, E. L. 1922 D, 35.
Wood, H. E. 1927 B, 27, 79.
Middle or Lower Oligocene; South Dakota.

Hyracodon major Scott and Osborn.

Hay, O. P. 1902 A, 641.
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1920 A, 152.
Sinclair, W. J. 1922 C, 77 ("indeterminate").
Troxell, E. L. 1921 E, 35.
Oligocene (White River); South Dakota.

Hyracodon nebraskensis Leidy.

Hay, O. P. 1902 A, 641.
Abel, O. 1913 B, 753a, fig. 98 (H. nebrascense).
1914 A, 237, figs. 202, 203 (H. nebrascense).
1926 A, 225, fig. 1 (H. nebrascensis); 227-245 (H. nebrascensis selenidens).
Beddard, F. E. 1902 A, 260, fig. 134 (H. nebrascensis).
Cook, H. J. 1912 D, 136 (H. nebrascensis).
Darton, N. H. 1901 A, 543 (H. nebrascensis).
1905 A, 45, 173 (H. nebrascensis).
Darton and Siebenthal 1910 A, 11 (H. nebrascensis).
Gervais, P. 1859 A, 360 (Rhinoceros).
Giebel, C. G. 1883 A, pl. xlii (Rhinoceros).
Lambe, L. M. 1904 C, 28, 38, 51 (H. nebrascense).
1905 B, 37 (H. nebrascensis).
1908 A, 10, 39, 42.
Matthew, W. D. 1901 B, 357 (H. nebrascensis).
1903 B, 219 (This species?).
1909 C, 105 (H. nebrascensis).
Merrill, G. P. 1907 A, 20 (Aceratherium); 42 (Hyracodon); 60 (Rhinoceros).
O'Harra, C. C. 1920 A, 91, 93, pls. xiv, xxxi; text-fig. 36 (H. nebrascensis).
Osborn, H. F. 1904 F, 42.
Ruschenberger and Tryon 1879 A, 12 (H. nebrascensis).
Scott, W. B. 1913 A, 341, 343, figs. 180, 181.
Sinclair, W. J. 1922 C, 69, fig. 2 (H. nebrascensis).
1924 A, 102 (H. nebrascensis).
Stehlin, H. G. 1905 A, 576.
Trouessart, E. L. 1905 A, 624 (H. nebrascensis).
Troxell, E. L. 1921 E, 34, 35 (H. nebrascensis).
Weber and Abel 1928 A, 663, figs. 449, 451, 452 (H. nebrascensis).
Wood, H. E. 1927 B, 27, 79.
Zittel and Schlosser 1911 A, 451, fig. 622 (H. nebrascensis).
Middle Oligocene (Lower Brule); South Dakota.

Hyracodon petersoni Wood.

Wood, H. E. 1927 B, 79, tab. 1*b*.
Abel, O. 1926 A, 245 (Syn. of H. nebrascensis selenidens).
Lower Oligocene (Chadron); Nebraska.

Hyracodon? planiceps Scott and Osborn.

Hay, O. P. 1902 A, 641.
Cook, H. J. 1912 D, 37 (This genus?).
Lambe, L. M. 1905 B, 40.
1908 A, 10, 42.
Matthew, W. D. 1909 C, 105 (This genus and family?).
O'Harra, C. C. 1920 A, 152.
Sinclair, W. J. 1922 C, 76 (This genus?).
Troxell, E. L. 1921 E, 36.
Middle Oligocene (Lower Brule); Nebraska?

Hyracodon sp. indet.

Cook, H. J. 1912 D, 34. Oligocene (Chadron); Nebraska: 38, Oligocene (Brule); Nebraska.
Lambe, L. M. 1905 D, 368 A. Oligocene (Cypress Hills); Canada.
Matthew, W. D. 1909 C, 108. Oligocene (Brule); Colorado and region of South Dakota and Nebraska.
Sinclair, W. J. 1922 C, 75, 76, figs. 6, 7.
1924 A, 101. Oligocene (White River); South Dakota.

AMYNODONTIDÆ Scott and Osborn.

Hay, O. P. 1902 A, 641.
Abel, O. 1910 E, 3.
1913 B, 730, 753a (Amynodontinæ).
1914 A, 239 (Amynodontinæ).
1919 A, 856 (Amynodontinæ).
Adloff, P. 1906 A, 115 (Amynodontinæ).
Ameghino, F. 1906 A, 324.
Arldt, T. 1907 D, 260 (Amynodontinæ).
1912 A, 700 (Amynodontinæ).
Beddard, F. E. 1902 A, 263 ("amynodonts").
Case, E. C. 1898 C, 835 ("amynodonts").
Cooper, C. F. 1924 B, 384.
Cossmann, M. 1899 A, 81.
Depéret, C. 1912 A, 708 ("amynodontidés").
Gregory, W. K. 1912 F, 294.
Lydekker, R. 1898 C, 87.
Matthew, W. D. 1909 C, 99, 102, 104, 105, 111.
1926 C, 170, fig. 26 ("amynodonts").
1928 B, 968 ("amynodonts").
Nat. Sci. 1898 A, 158.
O'Harra, C. C. 1910 A, 89.
Osborn, H. F. 1905 I, 107.
1909 D, 54, 57, 60-63.
1910 B, 557, 606 (Amynodontinæ).
Palacký, J. 1903 B, 306 ("amynodontiden").
Peterson, O. A. 1919 A, 128, 130 (Amynodontinæ).
Roman and Joleaud 1909 A, 39, 43.
Schlosser, M. 1898 C, 376.
1901 B, 301, 303.
Scott, W. B. 1913 A, 346, 675 (Amynodontinæ).
Trouessart, E. L. 1905 A, 624 (Amynodontinæ).
Troxell, E. L. 1921 D, 21.
Weber, M. 1904 A, 615, 625.
Weber and Abel 1928 A, 426, 651, 664.
Winge, H. 1906 A, 71, 158.
Wood, H. E. 1927 B, 6, 8, 79, 81, 83.
Zittel and Schlosser 1911 A, 451 (Amynodontinæ).
1923 A, 536, 669 (Amynodontinæ).

AMYNODON Marsh. Type *Diceratherium advenum* Marsh.

Hay, O. P. 1902 A, 641.
Arldt, T. 1907 D, 260.
Cooper, C. F. 1922 B, 619.
Depéret, C. 1904 A, 578.
Gaudry, A. 1896 A, 181.
Granger, W. 1909 A, 22.
1910 A, 235.
Gregory, W. K. 1920 B, 280, fig. 24.
Heilprin, A. 1887 A, 368.
Kampfen, P. N. 1905 A, 577.
Matthew, W. D. 1907 D, 6.
1909 C, 102.
1915 A, 240.
1924 E, 748.
1926 C, 169, fig. 26 ("amynodonts").
1928 B, 967, 979, fig. 15.
Osborn, H. F. 1909 D, 53.
1910 B, 166, 170, 557.
1912 G, 241, fig. 6.
Palacký, J. 1903 B, 307.
Palmer, T. S. 1904 A, 99, 936.
Pavlow, M. 1915 A, 16.
Peterson, O. A. 1919 A, 130.
Roman, F. 1912 A, 9.
Roman and Joleaud 1909 A, 39.
Schlosser, M. 1901 B, 301.
Scott, W. B. 1913 A, 266, 272, 348, 675.
Stehlen, H. G. 1903 A, 74.
1905 A, 576.
Terra, P. 1911 A, 314.
Trouessart, E. L. 1905 A, 624.
Troxell, E. L. 1921 D, 21.
1922 E, 38.
Weber, M. 1904 A, 625.
Weber and Abel 1928 A, 664, 666.
Winge, H. 1906 A, 158.
Wood, H. E. 1927 B, 8.
Zittel and Schlosser 1911 A, 451.
1923 A, 536, 668.

Amynodon advenus Marsh.

Hay, O. P. 1902 A, 641.
Depéret and Douxami 1902 D, 26 (Diceratherium).
Matthew, W. D. 1909 C, 99.
Peterson, O. A. 1919 A, 130.
Troxell, E. L. 1921 D, 21, 32, fig. 7.
Upper Eocene (Uinta); Utah.

Amynodon antiquus (Scott and Osborn).

Hay, O. P. 1902 A, 641.
Granger, W. 1910 A, 240 (This species?).
Matthew, W. D. 1909 C, 99.
Troxell, E. L. 1921 D, 21, 22.
Upper Eocene (Uinta); Wyoming.

Amynodon erectus Troxell.

Troxell, E. L. 1921 D, 22, 28, figs. 3-6.
1922 D, 37.
Upper Eocene (Uinta); Utah.

Amynodon intermedius Osborn.

Hay, O. P. 1902 A, 642.
Matthew, W. D. 1909 C, 99.
Osborn, H. F. 1904 F, 33.
1912 G, 245.
Peterson, O. A. 1919 A, 131.
Troxell, E. L. 1921 D, 21, 22.
Upper Eocene (Uinta); Utah.

Amynodon sp. indet.

Matthew, W. D. 1909 C, 99. Upper Eocene (Uinta); Wyoming, Utah, Montana.

METAMYNODON Scott and Osborn. Type *M. planifrons* Scott and Osborn.

Hay, O. P. 1902 A, 642.
Abel, O. 1914 A, 240.
Ameghino, F. 1906 A, 325.
Anonymous 1898 B, 374.
Arldt, T. 1907 D, 260.
Cooper, C. F. 1922 B, 617, figs. 1, 2.
Gregory, W. K. 1912 F, 286.
1920 A, 197, fig. 175.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1901 B, 369.

Matthew, W. D. 1909 C, 111.
1915 A, 240.
1924 E, 748.
1926 C, 170, fig. 26.
1928 B, 979, fig. 15.
Nat. Sci. 1898 A, 158.
Osborn, H. F. 1899 K, 273.
1909 D, 62, 65.
1910 B, 623.
1912 G, 243, fig. 8.
1923 G, 2.
Palmer, T. S. 1904 A, 418, 936.
Roman and Joleaud 1909 A, 39, 43.
Schlosser, M. 1901 B, 301.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 255, 346, 348, 352.
Sinclair, W. J. 1921 A, 465.
1924 A, 97.
Stehlin, H. G. 1905 A, 576.
Trouessart, E. L. 1905 A, 624.
Troxell, E. L. 1921 D, 21.
Wanless, H. R. 1923 A, 246, 259.
Weber, M. 1904 A, 625.
Zittel and Schlosser 1911 A, 451.
1923 A, 536, 670.

Metamynodon planifrons Scott and Osborn.

Hay, O. P. 1902 A, 642.
Abel, O. 1913 B, 753a, fig. 99.
1914 A, 238, fig. 204.
1919 A, 856, fig. 649.
Ameghino, F. 1906 A, 326, fig. 150.
Beddard, F. E. 1902 A, 263, fig. 136.
Cook, H. J. 1912 D, 37.
Gregory, W. K. 1920 B, figs. 22, 23.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1910 A, 89, pl. xxix, xxx.
1920 A, 92, 152, pl. xxix; text-fig. 37.
Osborn, H. F. 1904 F, 23, 40.
1910 B, 220, fig. 108.
Osburn, R. C. 1903 A, 653.
Roman and Joleaud 1909 A, 39, text-fig. 7.
Schlosser, M. 1898 C, 376.
Scott, W. B. 1913 A, 347, fig. 184.
Trouessart, E. L. 1905 A, 624.
Troxell, E. L. 1921 D, 21.
Weber and Abel 1928 A, 664, fig. 454.
Williams, H. S. 1897 A, 681, fig. ("Metamynodon?").
Wood, H. E. 1927 B, tab. vii.
Zittel and Schlosser 1911 A, 451, fig. 623.
1923 A, 536, fig. 662.

Middle Oligocene (Brule); South Dakota, Nebraska.

Metamynodon rex Troxell.

Troxell, E. L. 1921 D, 24, figs. 1, 2.

Lower Oligocene (Oreodon beds); South Dakota.

Metamynodon sp. indet.

Cook, H. J. 1912 D, 34. Oligocene (Chadron); Nebraska.
Douglass, E. 1903 A, 159. Oligocene; Montana.
Matthew, W. D. 1909 C, 99 (This genus?). Eocene; Montana: 104 Oligocene (Chadron); South Dakota.
Wanless, H. R. 1923 A, 221, 259. Oligocene (White River); Nebraska.

RHINOCEROTIDÆ Owen.

Owen, R. 1845 B, 587.
Hay, O. P. 1902 A, 642 (Rhinocerotidæ); 647 (Rhinocerotinæ).
Abel, O. 1910 B ("nashörner").
1910 E.
1912 F, 697 ("rhinocerotiden").
1913 B, 730, 753 (Rhinoceridæ).
1914 A, 237 (Rhinocerotidæ); 241 (Rhinocerotinæ).
1919 A, 855.
1920 A, 451.
Adloff, P. 1906 A, 115 (Rhinoceridæ).
Ameghino, F. 1889 A, 1024 (Rhinoceridæ).
Anonymous 1898 B, 374 ("rhinoceroses").
Arldt, T. 1907 D, 679 (Rhinoceridæ); 260 (Rhinocerinæ).
Bach, F. 1909 A, 761 ("rhinocerotiden").
Baer, E. K. 1866 A, 689 (R. tichorinus).
Beddard, F. E. 1902 A, 253.
Behlen, H. 1906 A, 195 ("rhinoceriden").
Boas, J. E. V. 1884 B, 392 ("rhinoceras").
Breunig, S. 1924 A, 5-46.
Carus and Engelmann 1861 A, 1795 (Rhinoceros).
Cooper, C. F. 1924 B, 275 ("rhinoceroses").
Cossmann, M. 1899 A, 81.
Cuvier, F. 1825 A, 219 ("rhinocéros").
Cuvier, G. 1825 A, II, 1-93, pls. i-xviii ("rhinoceros").
Depéret, C. 1902 A, 323 ("rhinocéros").
1902 C, 345 ("rhinocéros").
Depéret, C. 1904 B, 24 ("rhinocéridés").
1905 A, 1518 ("rhinocéridés").
1906 A, 620 ("rhinocéridés").
1906 B, 1120, 1122 ("rhinocéridés").
1907 B ("rhinocéros").
1908 A, 303.
1912 A, 707 ("rhinocéridés").
Dollo, L. 1885 C, 295.
Doran, A. H. G. 1878 A, 419, pl. lxi.
Flower, W. H. 1892 A, 53.
Gaudry, A. 1891 C, 126.
Gervais, P. 1852 A, 43 (Rhinoceros).
1859 A, 87 ("rhinocéridés").
Giebel, C. G. 1848 B, 28 (Rhinoceros).
1849 A, 76.
1883 A ("rhinoceroten").
Gray, J. E. 1821 A, 306 (Rhynocerotidæ).
1869 A, 295-344.
Gregory, W. K. 1912 F, 294.
1927 A, 601 ("rhinoceroses").
Hay, O. P. 1923 A, 5, 211.
1927 E, 77 ("rhinoceroses").
Hayden, F. V. 1871 A, 106 ("rhinoceroses").
Hoernes, R. 1886 A, 669.
Hogben, L. T. 1919 A, 75.
Huxley, T. H. 1863 F, 579, 580 ("rhinoceros").
1870 F, 532.
Jacobi, A. 1921 A, 200, 211 ("nashörner").
Kampfen, P. N. 1905 A, 573, figs. 61-63.
Kingsley, J. S. 1925 A, 298 (Rhinoceros)

Köstlin, O. 1844 A (Rhinoceros).
Knottnerus-Meyer, T. 1907 A, 4.
Lankester, E. R. 1905 A, 142 ("rhinoceroses").
Lee, Stone, Gale 1915 A, 27 ("rhinoceroses").
Leunis and Ludwig 1883 A, 272 (Nasicornia).
Lobley, J. L. 1908 A, 204.
Lull, R. S. 1918 C, 136 ("rhinoceroses").
Lydekker, R. 1898 C, 87.
1907 B, 5.
1916 A, 46.
Major, C. J. F. 1880 A.
Matson and Sanford 1913 A, 146 ("rhinoceroses").
Matthew, W. D. 1909 C, 135.
1914 G, 235 (Rhinocerid æ).
1915 A, 240, fig. 40.
1915 K, 449, fig. 17 ("rhinoceroses").
1916 C, 522 ("rhinoceroses").
1918 A, 207.
1921 D, 215 ("rhinoceroses").
1924 E, 745 ("rhinoceroses").
1926 C, 168, 170, fig. 26 ("rhinoceroses").
1928 B, 967, 979 ("rhinoceroses").
Meckel, J. F. 1825 A ("nashörner").
Nat. Sci. 1898 A, 159.
Nitsche, H. 1898 A, 78, pl. xii, figs. 8-11 (Rhinoceros).
Nopcsa, F. 1923 H, 165 ("rhinocerotiden").
1926 A, 645 (Rhinocerosinæ).
O'Harra, C. C. 1910 A, 89.
Osborn, H. F. 1902 A, 79 ("rhinoceroses").
1902 G, 357 ("rhinoceroses").
1905 D, 315 ("rhinoceroses").
1905 H, 211, fig. 3.
1905 I, 107.
1907 G, 73, 76, 86, 176, 181-183 ("rhinoceroses").
1909 D, 135.
1910 B, 630.
1910 C, 80 ("rhinoceroses").
1915 D, 284 ("rhinoceroses").
1918 C, 133 ("rhinoceroses").
1926 A, 188 ("rhinoceroses").
1926 C, 341 ("rhinoceroses").
Owen, R. 1845 B, 587.
1848 B, 202, pl. ii, fig. 17.
Palmer, T. S. 1904 A, 768, 939.
Pander and Alton 1821 B, 13, pls. viii, ix (Rhinoceros).
Paulli, S. 1900 A, 184, pl. viii; text-figs. 3-5 (Rhinoceros).
Pavlow, M. 1913 A, 46.
Peterson, O. A. 1919 A, 128.
Pictet, F. J. 1853 A, 294 ("rhinoceroides").
Pohle, R. 1904 A, 580 ("nashorn").
Reynolds, S. H. 1897 A, 553, fig. 110 ("rhinoceros").
Ringström, T. 1924 A.
Sauvage, H. E. 1882 A, 105.
Scharff, R. F. 1911 A, 229.
Schlosser, M. 1902 J, 257 ("rhinocerotiden").
1903 C, 555 ("rhinocerotiden").
1903 I, 49, 63, 179.
Schmidt, O. 1886 A, 195 (Rhinocerid æ).
Schwarz, E. 1924 A, 420 ("rhinoceroses").
Scott, W. B. 1913 A, 291, 326, 350, 689.
1916 A, 117 ("rhinoceroses").
1917 A, 181 ("rhinoceroses").
1924 A, 438 ("rhinoceroses").
Sellards, E. H. 1915 C, 8 ("rhinoceroses").
Stehlin, H. G. 1905 A, 576 ("rhinoceriden").
Steinmann, G. 1907 A, 488.
Stromer, E. 1902 B, 561 ("rhinocerotiden").
1916 A, 402.
Taschenberg, O. 1899 A, 4669.
Terra, P. 1911 A, 314.
Thomas, O. 1888 A, 451 ("rhinoceroses").
Tornier, G. 1888 A, 303 ("rhinozeriden").
Toula, F. 1902 A.
Trouessart, E. L. 1905 A, 623.
Troxell, E. L. 1922 E, 38.
1923 G, 134 ("rhinoceroses").
Virchow, H. 1910 H, 848, figs. 1-9 (Biceros).
Wallace, A. R. 1876 A, I, 136; II, 213.
Weber, M. 1904 A, 611, 615, 626.
Weber and Abel 1928 A, 426, 651, 652, 666.
Wilckens, O. 1911 A, 708 ("rhinocerotiden").
Winge, H. 1906 A, 71, 159, 162 (Rhinocerotini).
Wood, H. E. 1927 B, 9, 82.
Woodward, A. S. 1917 D, lxix ("rhinoceroses").
1923 C, 27, 29 (Rhinocerid æ).
Woodward, H. 1904 B, 160.
Wright, R. R. 1883 A, 239 (Rhinocerid æ).
Wüst, E. 1922 A, 641, 680 ("nashörner").
Zittel and Schlosser 1911 A, 449 (Rhinoceridæ); 451 (Rhinocerinæ).
1923 A, 534, 602 (Rhinoceridæ); 536 (Rhinocerinæ).

CÆNOPINÆ Breunig.

Breunig, S. 1924 A, 16, 20, 36.
Weber and Abel 1928 A, 667.

EOTRIGONIAS Wood. Type *E. rhinocerinus* Wood.

Wood, H. E. 1927 B, 28, 48, 77.
Weber and Abel 1928 A, 668.

Eotrigonias petersoni Wood.

Wood, H. E. 1927 B, 29, pl. iv, fig. 16, tab. *ia*.
Middle Eocene (Washakie); Wyoming.

Eotrigonias rhinocerinus Wood.

Wood, H. E. 1927 B, 32, 77, pl. iv, figs. 17-19, tab. *ia*, ii.
Upper Eocene (Uinta); Wyoming.

TRIGONIAS Lucas. Type *T. osborni* Lucas.

Hay, O. P. 1902 A, 642.
Abel, O. 1910 E.
1914 A, 241.
Breunig, S. 1924 A, 20.
Gregory and Cook 1926 A, 59.
Gregory and Cook 1928 A, 1-32, text-figs. 1-5.
Hatcher, J. B. 1901 A, 135.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 111.
1915 A, 240.

Matthew, W. D. 1915 K, 420.
1917 A, 576.
1926 C, 170, fig. 26.
1928 B, 980.
Matthew and Granger 1923 A, 6.
Osborn, H. F. 1905 H, 218.
1910 B, 213, 557.
1923 F, 214.
Palmer, T. S. 1904 A, 691, 940.
Peterson, O. A. 1920 A, 456.
Scott, W. B. 1913 A, 336, 337, 338, 351.
Trouessart, E. L. 1905 A, 625.
Troxell, E. L. 1921 F, 42.
1922 D, 31.
1922 E, 38.
Wood, H. E. 1926 A, 239.
1927 B, 10, 11, 38, 48, 77.
Zittel and Schlosser 1911 A, 452.
1923 A, 537.

Trigonias gregoryi Wood.

Wood, H. E. 1927 B, 48, pls. vi, vii, tabs. iii*a*, iii*b*, iv*a*.
Oligocene (Titanotherium); South Dakota.

Trigonias hypostylus Gregory and Cook.

Gregory and Cook 1928 A, 15, 21, 22, 25, 27, 29, pl. v; text-fig. 4.
Oligocene (Chadron); Colorado.

Trigonias osborni Lucas.

Hay, O. P. 1902 A, 642.
Abel, O. 1910 E, 39.
Cockerell, T. D. A. 1923 D, 273, figs. 1-5.
Cook, H. J. 1912 D, 34.
Cossmann, M. 1901 A, 2.
Gregory and Cook 1928 A, 30, 31.
Hatcher, J. B. 1901 A, 135, pls. i-iv.
Matthew, W. D. 1901 B, 369.
1909 C, 104.
Merrill, G. P. 1907 A, 62.
O'Harra, C. C. 1910 A, 90.
1920 A, 96, 149.
Scott, W. B. 1913 A, 337, 339, figs. 176, 177, 179.
Trouessart, E. L. 1905 A, 625.
Troxell, E. L. 1921 F, 42.
Weber and Abel 1928 A, 664, 668, fig. 453.
Wood, H. E. 1927 B, 10, 33, 39, 53, 77, pl. v, figs. 20-28, tabs.
Oligocene (Chadron); Nebraska, Colorado.

Trigonias osborni figginsi Gregory and Cook.

Gregory and Cook 1928 A, 10, 14, 18, 21, 22-27, 30, 31, pls. i-iv; text-figs. 4, 5 (T. o. *var.* figginsi).
Oligocene (Chadron); Colorado.

Trigonias osborni secundus Gregory and Cook.

Gregory and Cook 1928 A, 15, 18-27, 29, text-figs. 4, 5.
Oligocene (Chadron); Colorado.

Trigonias paucidens Wood.

Wood, H. E. 1927 B, 51, 53, pls. vi, vii, tabs. iii*a*, iii*b*.
Gregory and Cook 1928 A, 31.
Oligocene (Titanotherium); South Dakota.

Trigonias precopei Gregory and Cook.

Gregory and Cook 1928 A, 15, 18, 21-27, 29, 31, pl. vi; text-figs. 4, 5.
Oligocene (Chadron); Colorado.

Trigonias preoccidentalis Gregory and Cook.

Gregory and Cook 1928 A, 16, 18-27, 29, 31, pl. vi; text-fig. 4.
Oligocene (Chadron); Colorado.

Trigonias taylori Gregory and Cook.

Gregory and Cook 1928 A, 17-18, 20-27, 29-31, pl. v; text-fig. 5.
Oligocene (Chadron); Colorado.

Trigonias wellsi Wood.

Wood, H. E. 1927 B, 46, pls. vi, vii, tabs. iii*a*, iii*b*.
Gregory and Cook 1928 A, 31.
Oligocene (Titanotherium); South Dakota.

Trigonias sp. indet.

Gregory and Cook 1927 A, 235. Oligocene (Lower); Colorado.
Matthew, W. D. 1909 C, 104. Oligocene (Chadron); South Dakota.
Figgins, J. D. 1921 A, 19.
1922 A, 18. Oligocene; Colorado.
1925 A, 19. Oligocene; Colorado.
Wood, H. E. 1927 B, 46, tabs. iii*a*, iii*b*. Oligocene (Titanotherium); South Dakota.

SUBHYRACODON Brandt. Type *Aceratherium occidentale* (Leidy).

Brandt, J. F. 1878 A, 30.
Cope and Matthew 1915 A, pls. civ, cv.
Matthew, W. D. 1909 C, 104, 105.
1928 B, 980.
Palmer, T. S. 1904 A, 653.
Wood, H. E. 1927 B, 59.

Subhyracodon copei (Osborn).

Unless otherwise indicated the writers, as cited, use for this species the name *Cænopus*.

Hay, O. P. 1902 A, 643.
Abel, O. 1910 E.
Breunig, S. 1924 A, 21.
Cook, H. J. 1912 D, 37.
Gregory and Cook 1928 A, 16, 31 [Cænopus (Subhyracodon)].
Hatcher, J. B. 1901 A, 144 (Aceratherium).
Matthew, W. D. 1909 C, 105 (Cænopus, Subhyracodon).
O'Harra, C. C. 1910 A, 90.
1920 A, 153.
Peterson, O. A. 1920 A, 402.
Roman, F. 1912 A, 10 (Cænovus); 23 Acerotherium).
Schlosser, M. 1901 B, 308 (Acerotherium).
1903 C, 556.

Sinclair, W. J. 1924 A, 120.
Trouessart, E. L. 1905 A, 625.
Troxell, E. L. 1921 F, 43.
Wood, H. E. 1927 B, 56, 61, tab. *va*.
Oligocene (Chadron); South Dakota: (Brule); Nebraska.

Subhyracodon gidleyi Wood.

Wood, H. E. 1927 B, 65, tab. *va*.
"White River Tertiary."

Subhyracodon metalophus (Troxell).

Troxell, E. L. 1921 F, 47, fig. 4 (Cænopus tridactylus metalophus).
Gregory and Cook 1928 A, 31.
Osborn, H. F. 1898 I, 153, 157, pl. xiii, fig. 1 (Aceratherium occidentale).
Troxell, E. L. 1922 D, 35 (Cænopus tridactylus metalophus).
Wood, H. E. 1927 B, 67, tab., *vb* (S. metalophum).
Oligocene (Middle?); Nebraska.

Subhyracodon occidentalis (Leidy).

Unless otherwise indicated the authors as cited use for this species the generic name *Cænopus*.

Hay, O. P. 1902 A, 643.
Abel, O. 1910 E.
Breunig, S. 1924 A, 18, 21.
Cook, H. J. 1912 D, 37.
Cooper, C. F. 1924 B, 393.
Darton, N. H. 1905 A, 173 (Aceratherium).
Depéret, C. 1904 B, 18, fig. 3 (Acerotherium).
Gervais, P. 1859 A, 360 (Rhinoceros).
Giebel, C. G. 1883 A, pl. xlii (Rhinoceros).
Gregory and Cook 1928 A, 31.
Hatcher, J. B. 1901 A, 144 (Aceratherium).
Lambe, L. M. 1904 C, 28, 38, 51 (Aceratherium).
1905 D, 368 A (Aceratherium).
1908 A, 10, 44, pl. iv, fig. 7 (Aceratherium).
Matthew, W. D. 1909 C, 105 (Cænopus = Subhyracodon).
Merrill, G. P. 1907 A, 21 (Aceratherium); 60 (Rhinoceros).
O'Harra, C. C. 1910 A, 90.
1920 A, 152, pl. xv.
Osborn, H. F. 1904 F, 31.
1905 I, 91 (Aceratherium).
1910 B, 196.
1923 F, 214 (Aceratherium).
Pavlow, M. 1915 A, 16.
Peterson, O. A. 1920 A, 401, 402.
Roman, F. 1912 A, 11, 14, 46, 52 (Acerotherium).
Ruschenberger and Tryon 1879 A, 12 (Aceratherium).
Schlosser, M. 1898 C, 376 (Aceratherium).
1901 B, 309 (Aceratherium).
Scott, W. B. 1913 A, 335.
Sinclair, W. J. 1924 A, 102, 120.
Stock, C. 1920 A, 271.
Toula, F. 1902 A, 25 (Aceratherium).
Trouessart, E. L. 1905 A, 625.
Troxell, E. L. 1921 A, 475 (Rhinoceros).
1921 F, 43.
Wood, H. E. 1927 B, 59, 63, 78, tab. *va*.
Middle Oligocene (Brule); Colorado, Nebraska.

LEPTACERATHERIUM Osborn. Type *Aceratherium trigonodum* Osborn and Wortman.

Hay, O. P. 1902 A, 643.
Abel, O. 1910 E.
Anonymous 1898 B, 374.
Breunig, S. 1924 A, 20.
Cossmann, M. 1899 A, 82.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 111.
Schlosser, M. 1901 B, 308.
1902 J, 257.
Toula, F. 1902 A, 25.
Trouessart, E. L. 1905 A, 625.
Zittel and Schlosser 1911 A, 452.
1923 A, 537.

Leptaceratherium trigonodum (Osborn and Wortman).

Hay, O. P. 1902 A, 643.
Abel, O. 1910 E.
Breunig, S. 1924 A, 20.
Cook, H. J. 1912 D, 34, 37 (L. trigonogum).
Hatcher, J. B. 1901 A, 143.
Matthew, W. D. 1909 C, 104, 105.
O'Harra, C. C. 1910 A, 90.
1920 A, 149, 152.
Peterson, O. A. 1919 A, 128.
Portis, A. 1899 A, 123.
Roman, F. 1912 A, 23, 83.
Schlosser, M. 1901 B, 308.
Toula, F. 1902 A, 24.
Troxell, E. L. 1921 F, 43 [Cænopus (Leptaceratherium)].
Wood, H. E. 1927 B, 59, 78, tabs. *va*, vi.
Lower Oligocene (Chadron); South Dakota: (Brule); Nebraska.

Leptaceratherium trigonodum allum (Troxell).

Troxell, E. L. 1921 F, 44, figs. 1, 2 (Cænopus).
Wood, H. E. 1927 B, 65, tab. vi (Syn. of Subhyracodon occidentalis).
Oligocene (White River); Nebraska.

CÆNOPUS Cope. Type *Aceratherium mite* Cope.

Hay, O. P. 1902 A, 643.
Abel, O. 1910 E.
Arldt, T. 1907 D, 203, 260.
Beddard, F. E. 1902 A, 262.
Breunig, S. 1924 A, 21.
Cook, H. J. 1909 C, 245, 246 (Cœnopus).
Dollo, L. 1885 C, 295 (Cœnopus).
Fairchild, H. L. 1894 A, 209 (Cœnopus).
Gregory, W. K. 1920 A, 196, fig. 173.
Gregory and Cook 1928 A, 6, fig. 1.
Haug, E. 1911 A, 1528, 1705.
Kampfen, P. N. 1905 A, 577 (Aceratherium).
Matthew, W. D. 1909 C, 111, 119.
1915 A, 240.

Matthew, W. D. 1917 A, 576.
 1924 E, 748.
 1926 C, 170, fig. 26.
 1928 B, 979, 980, fig. 15.
Matthew and Cook 1909 A, 366, 380.
Matthew and Granger 1923 A, 6.
O'Harra, C. C. 1910 A, 91.
Osborn, H. F. 1907 G, 182, fig. 179.
 1910 B, 213, 220, 351, 557.
Palmer, T. S. 1904 A, 150, 939.
Peterson, O. A. 1920 A (Cænopus, Cœnopus).
Ringström, T. 1924 A, 114.
Rogers, A. F. 1924 A, 545.
Schlosser, M. 1901 B, 308 (Aceratherium).
Scott, W. B. 1913 A, 677, figs. 133, 178.
Sinclair, W. J. 1924 A, 120.
Thorpe, M. R. 1923 E, 241.
Trouessart, E. L. 1905 A, 625.
Troxell, E. L. 1921 F, 42.
 1922 D, 31.
 1922 E, 38.
 1923 G, 134.
Wood, H. E. 1926 A, 239.
 1927 B, 55, 77 (Cænopus); 72 (Amphicænopus, type *C. platycephalus*).
Wright, R. R. 1883 A, 245.
Zittel and Schlosser 1911 A, 452 (Syn. of Aceratherium).
 1923 A, 537, 673 (Syn. of Aceratherium).

Cænopus dakotensis Peterson.

Peterson, O. A. 1920 A, 402.
Osborn, H. F. 1898 I, 139, fig. 39 (Aceratherium mite?).
Troxell, E. L. 1921 F, 42 (Syn. of C. tridactylus).
Wood, H. E. 1927 B, 55, 57, tab. vi.
 Oligocene (Protoceras); South Dakota.

Cænopus exiguus Lambe.

Lambe, L. M. 1908 A, 10, 44, pl. v, figs. 3-5 (Aceratherium).
 Oligocene (Cypress Hills); Saskatchewan.

Cænopus mitis Cope.

Hay, O. P. 1902 A, 643.
Abel, O. 1910 E.
Breunig, S. 1924 A, 21 (C. mite).
Cook, H. J. 1912 D, 34 (C. miti).
Cope and Matthew 1915 A, pl. civ, figs. 1, 2 (Aceratherium occidentale; Cænopus=Subhyracodon); pl. cv, figs. 1-5 (Aceratherium; Cænopus=Subhyracodon).
Gregory and Cook 1928 A, 31.
Hatcher, J. B. 1901 A, 143 (Aceratherium).
Lambe, L. M. 1904 C, 28, 38, 51 (Syn. of Aceratherium pumilum).
 1905 D, 368 A (Aceratherium).
 1908 A, 10, 43, pl. iv, fig. 5 (Aceratherium).
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1910 A, 90.
 1920 A, 96.
Peterson, O. A. 1906 D, 283 (Aceratherium).
 1919 A, 128 (C. mite).
 1920 A, 435 (Cœnopus, Cænopus).
Pilgrim, G. E. 1912 A, 27 (Aceratherium).
Schlosser, M. 1898 C, 376 (Aceratherium).
Schlosser, M. 1901 B, 308 (Aceratherium).
Trouessart, E. L. 1905 A, 625.
Troxell, E. L. 1921 F, 42.
 1921 H, 206.
Wood, H. E. 1927 B, 56; 60, tabs. va, vi, vii (Syn. in part of Subhyracodon trigonodus); 61 (Syn. in part of Cænopus copei).
 Lower Oligocene; Colorado, Canada.

Cænopus persistens Osborn.

Osborn, H. F. 1904 D, 318, fig. 16.
Matthew, W. D. 1909 C, 114.
Wood, H. E. 1927 B, 55, 72 (Diceratherium?).
Zittel and Schlosser 1923 A, 537 (Aceratherium).
 Middle Miocene (Pawnee Creek); Colorado.

Cænopus platycephalus Osborn and Wortman.

Hay, O. P. 1902 A, 645 (Aceratherium).
Abel, O. 1910 E, 31, 39 (Aceratherium).
Breunig, S. 1924 A, 21, fig. 8.
Cook, H. J. 1912 D, 34 (This species?); 38 (C. platycephalus).
Cooper, C. F. 1924 B, 293, 380, 393 (Aceratherium).
Gregory and Cook 1928 A, 31 (Amphicænopus).
Hatcher, J. B. 1901 A, 143 (Aceratherium).
Matthew, W. D. 1909 C, 104, 108 (This species?).
O'Harra, C. C. 1910 A, 90.
 1920 A, 149.
Peterson, O. A. 1919 A, 120.
Pilgrim, G. E. 1912 A, 27 (Aceratherium).
Portis, A. 1899 A, 123 (Aceratherium).
Roman, F. 1912 A, 50 (Acerotherium).
Schlosser, M. 1900 H, 460 (Aceratherium).
 1901 B, 308 (Aceratherium).
Toula, F. 1902 A, 24 (Aceratherium).
Trouessart, E. L. 1905 A, 627 (Aceratherium).
Troxell, E. L. 1921 F, 43.
 1922 D, 34.
Wood, H. E. 1926 A, 239.
 1927 B, 73, 75, tabs. v, vi (Amphicænopus).
Zittel and Schlosser 1911 A, 453, fig. 627 (Aceratherium).
 1923 A, 538, fig. 666 (Aceratherium).
 Oligocene (Chadron); South Dakota: (Brule); Nebraska.

Cænopus platycephalus nanolophus Troxell.

Troxell, E. L. 1921 F, 46, fig. 3.
Gregory and Cook 1928 A, 14.
Troxell, E. L. 1922 D, 36.
Wood, H. E. 1927 B, 39 (Syn.? of Trigonias osborni); tabs. iiia, iiib (T. "nanolophus").
 Middle or Upper Oligocene; Colorado.

Cænopus premitis Gregory and Cook.

Gregory and Cook 1928 A, 18-19, 21-23, 25-27. 29-31, pl. iv; text-fig. 5 (This genus?).
 Oligocene (Chadron); Colorado.

Cænopus simplicidens Cope.

Hay, O. P. 1902 A, 643.
Cook, H. J. 1912 D, 37.
Cooper, C. F. 1924 B, 385 (Aceratherium).

Matthew, W. D. 1909 C, 105 (Cænopus, Subhyracodon).
Schlosser, M. 1901 B, 308 (Aceratherium).
Trouessart, E. L. 1905 A, 625.
Troxell, E. L. 1921 F, 42.
Wood, H. E. 1927 B, 76, tab. *vb* (Amphicænopus?).
Middle Oligocene (Lower Brule); South Dakota.

Cænopus tridactylus Osborn.

Hay, O. P. 1902 A, 643.
Abel, O. 1910 E, 7, 31.
1913 B, 753a, fig. 100 (Aceratherium).
1914 A, 241, fig. 208 (Aceratherium).
1919 A, 859, fig. 652 (Leptaceratherium).
Beddard, F. E. 1902 A, 259 (Aceratherium).
Breunig, S. 1924 A, 21, fig. 8.
Cook, H. J. 1912 D, 38.
Cooper, C. F. 1924 B, 380, 393 (Aceratherium).
Depéret and Douxami 1902 D, 26 (Acerotherium).
Douglass, E. 1908 A, 265 (Aceratherium).
1909 C, 231, 285 (Aceratherium).
Hatcher, J. B. 1901 A, 144 (Diceratherium).
Loomis, F. B. 1908 A, 52 (Aceratherium).
Matthew, W. D. 1909 C, 108.
O'Harra, C. C. 1910 A, 90, pl. xxviii.
1920 A, 92, 153, figs. 35, 38.
Osborn, H. F. 1899 K, 272, fig. 1 (Aceratherium).
1904 F, 30, 39.
1910 B, 227.
1923 F, 214 (Aceratherium).
Peterson, O. A. 1920 A, 402.
Repelin, J. 1916 A, 982 (Aceratherium).
Roman, F. 1912 A, 40, 52 (Acerotherium).
Schlosser, M. 1898 C, 376 (Aceratherium).
1900 E, 140 (Diceratherium proavitum).
1901 B, 309 (Aceratherium).
Scott, W. B. 1913 A, 256, 335, figs. 135, 174.
Toula, F. 1902 A, 25 (Aceratherium).
Trouessart, E. L. 1905 A, 625.
Troxell, E. L. 1921 F, 44.
1921 H, 207.
Wood, H. E. 1927 B, 11, 69, tabs. *vb*-vii (Subhyracodon); 69, tab. *vb* (S. proavitum).
Zittel and Schlosser 1911 A, 452 (Aceratherium).
1923 A, 537, fig. 665 (Aceratherium).
Oligocene (Upper Brule); Colorado?, North Dakota, Nebraska.

Cænopus tridactylus avus Troxell.

Troxell, E. L. 1921 F, 49, fig. 5.
Wood, H. E. 1927 B, 71, tab. *vb* (Diceratherium avum).
Upper Oligocene (Protoceras); South Dakota.

Cænopus tubifer Cope.

Hay, O. P. 1902 A, 640 (Anchisodon).
Matthew, W. D. 1909 C, 108.
Merriam and Sinclair 1907 A, 186 (Aceratherium).
Upper Oligocene (John Day); Oregon.

Cænopus sp. indet.

Abel, O. 1926 B, 347.
Deussen, A. 1924 A, 21 (Aceratherium); 98 (Cœnopus). Miocene (Oakville); Texas.
Matthew, W. D. 1901 B, 356.
1909 C, 104 (Cænopus, Subhyracodon).
Oligocene (Lower); Montana, Canada.
Sinclair, W. J. 1924 A, 101. Oligocene (White River): South Dakota.
Stock, C. 1920 A, 271, figs. 4, 5 (Cænopus? or Diceratherium). Oligocene (San Lorenzo); California.
Wanless, H. R. 1923 A, 219.

DICERATHERIINÆ Osborn.

Osborn, H. F. in Osborn and Wortman 1892 A, 92.
Hay, O. P. 1902 A, 642.
Abel, O. 1910 E, 7.
Breunig, S. 1924 A, 17, 36.
Cook, H. J. 1912 A, 31 ("diceratheres").
Dollo, L. 1885 C, 295.
Lydekker, R. 1898 C, 88.
Osborn, H. F. 1901 H, 505.
1909 D, 124.
1923 F, 213 ("diceratheres").
Peterson, O. A. 1920 A, 399-456.
Ringström, T. 1924 A, 104, 119.
Schlosser, M. 1903 C, 555 (Diceratherinæ).
Weber and Abel 1928 A, 667, 668.

DICERATHERIUM Marsh. Type *D. armatum* Marsh.

Hay, O. P. 1902 A, 644.
Abel, O. 1910 E, 6.
1913 B, 753b.
1914 A, 242.
1926 B, 373, 442.
Arldt, T. 1907 D, 650.
Baird, S. F. 1876 A, 336.
Barbour, E. H. 1906 C, 780.
1906 D, 313.
Beddard, F. E. 1902 A, 259.
Condon, T. 1902 A, 118, pls. xiii-xv (Rhinoceros).
1910 A, 99, pls. xiii-xv ("rhinoceros").
Cook, H. J. 1909 C, 245 (Metacœnopus; type *Aceratherium egregius* Cook).
Cooper, C. F. 1924 B, 372.
Delafontaine, M. 1875 A, 172 (Dyceratherium).
Depéret, C. 1904 B, 28.
1906 A, 619.
1912 A, 708.
Depéret and Douxami 1902 D, 11.
Dollo, L. 1885 C, 295, 298.
Eastman, C. R. 1912 C, 658.
Fairchild, H. L. 1894 A, 209.
Haug, E. 1911 A, 1705.
Laloy, L. 1907 A, 585.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1908 A, 51.
Matthew, W. D. 1907 A, 172, 176.
1909 C, 108, 111, 119.
1915 A, 240.
1917 A, 576.

Matthew, W. D. 1924 E, 748.
  1926 D, 450, fig. 1.
  1928 B, 979, fig. 15.
Merriam, J. C. 1900 B, 220.
  1901 A, 297.
  1915 G, 99.
O'Harra, C. C. 1910 A, 91, 131.
Osborn, H. F. 1907 F, 872.
  1909 D, 23, 65, 124.
  1910 B, 612.
  1912 G, 247, 249.
  1918 B, 132.
Palacký, J. 1903 B, 311.
Palmer, T. S. 1904 A, 226, 940.
Peterson, O. A. 1906 B, 490.
  1911 C, 274.
  1912 A, 801.
  1919 A, 128.
  1920 A, 401.
Pilgrim, G. E. 1912 A, 24.
Ringström, T. 1924 A, 104, 114.
Rogers, A. F. 1924 A, 539, pl. xxvii, fig. 1; pl. xxviii, fig. 3.
Roman, F. 1912 A, 65, 85.
Schlosser, M. 1901 B, 301, 307.
  1902 J, 257.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 238, 333, 679.
Smith and Packard 1919 A, 96.
Thorpe, M. R. 1921 D, 94.
Trouessart, E. L. 1905 A, 626.
Troxell, E. L. 1921 F, 41.
  1921 G, 197.
  1923 G, 134.
Wallace, A. R. 1876 A, I, 137; II, 137.
Weber, M. 1904 A, 626.
Weber and Abel 1928 A, 667.
Wood, H. E. 1927 B, 70, 77.
Wright, R. R. 1883 A, 245.
Zittel and Schlosser 1911 A, 453.
  1923 A, 538, 671, 672.

Diceratherium annectens Marsh.

Hay, O. P. 1902 A, 644 (D. annectens, D. nanum).
Depéret and Douxami 1902 B, 26 (D. nanum).
Loomis, F. B. 1908 A, 54, 62, fig. 3 (D. annectens); 55, fig. 4 (D. nanum).
Matthew, W. D. 1909 C, 108 (Cænopus? annectens, D. nanum).
Merriam and Sinclair 1907 A, 186 (Aceratherium annectens, D. nanum).
Peterson, O. A. 1920 A, 403, pls. lxiii, lxv, lxvii; pl. lxviii (D. nanum); text-fig. 11.
Sternberg, C. H. 1909 C, 189 (D. nanum).
Troxell, E. L. 1921 G, 199, 201, fig. 1 (D. nanum, a syn.).
  Upper Oligocene (John Day); Oregon.

Diceratherium armatum Marsh.

Hay, O. P. 1902 A, 644.
Loomis, F. B. 1908 A, 51, 53, 62, fig. 2.
Matthew, W. D. 1909 C, 108.
Merriam and Sinclair 1907 A, 186.
Peterson, O. A. 1906 C, 47.
  1920 A, 404, 414, pl. lvii; text-fig. 10.
Troxell, E. L. 1921 F, 49, fig. 6.
Troxell, E. L. 1921 G, 197, 198, 201, 203, figs. 1, 3, 5.
  1922 D, 34.
Wood, H. E. 1927 B, 71.
  Oligocene or Miocene (John Day); Oregon.

Diceratherium cuspidatum Troxell.

Troxell, E. L. 1921 G, 204, fig. 7.
Wood, H. E. 1927 B, 71.
  Oligocene (Middle John Day); Oregon.

Diceratherium gregorii Peterson.

Peterson, O. A. 1920 A, 402, 421, pl. lix; text-fig. 12.
Troxell, E. L. 1921 G, 208 (Metacænopus. "Of doubtful validity").
  Miocene (Lower Rosebud); South Dakota.

Diceratherium? hesperium (Leidy).

Hay, O. P. 1902 A, 644.
Becker, G. F. 1891 A, 189 (Rhinoceros).
Cooper, J. G. 1875 A, 390 (Rhinoceros).
Hay, O. P. 1927 D, 228 (Rhinoceros).
Knowlton, F. H. 1911 D, 63 ("rhinoceros").
Leidy, J. 1880, in Whitney, J. D. 1879 B, 243 (Young rhinoceros).
Lindgren, W. 1911 A, 51 (Rhinoceros).
Loomis, F. B. 1908 A, 52, 55, 62, fig. 5.
Merriam and Sinclair 1907 A, 186 (Aceratherium).
Osborn, H. F. 1904 D, 308, fig. 2 (Rhinoceros).
Peterson, O. A. 1920 A, 411, text-fig. 6 (This genus?).
Schlosser, M. 1901 B, 308 (Aceratherium).
Stock, C. 1920 A, 272 (Rhinoceros).
Troxell, E. L. 1921 G, 201 (Not valid).
Whitney, J. D. 1865 A, 251 ("rhinoceros"); 268 (Rhinoceros hesperius).
  1879 B, 283 ("rhinoceros").
Wilson, T. 1901 A, 312 ("rhinocéros").
Yates, L. G. 1903 A, 117 (Rhinoceros).
  The generic position of this species is doubtful.
  Pleistocene?; California: Miocene? (John Day); Oregon: (Auriferous gravels?); California.

Diceratherium lobatum Troxell.

Troxell, E. L. 1921 G, 199, 202, 205, figs. 1, 6.
Wood, H. E. 1927 B, 71, tab. *vb*.
  Oligocene (John Day); Oregon.

Diceratherium niobrarense Peterson.

Peterson, O. A. 1906 D, 281, 282 (D. niobrarensis).
Breunig, S. 1924 A, 12 (Metacænopus egregius).
Cook, H. J. 1908, in Loomis, F. B. 1908 A, 61, fig. 15 (Aceratherium egrerius).
  1908 A, 543, figs. 1, 2 (Aceratherium egregium).
  1909 C, 245, pl. i (M. egregius).
  1912 A, 31 (M. egregius).
  1912 D, 40 (D. niobrarensis); 41 (Metacœnopus egregius).
Loomis, F. B. 1908 A, 52, 56, 62, fig. 1 (D. niobrarense); 61, fig. 15 (Aceratherium egrerius).
Matthew, W. D. 1909 C, 113.

O'Harra, C. C. 1920 A, 156 (D. niobrariense, Metacænopus egregius).
Peterson, O. A. 1906 C, 46, pls. xiii, xiv; text-fig. 11.
 1920 A, 403, 424, pls. lx-lxii; text-figs. 13-15.
Troxell, E. L. 1921 G, 197, 208 (Metacænopus).
Wood, H. E. 1927 B, 71.
 Lower Miocene (Lower Harrison); Nebraska.

Diceratherium oregonense (Marsh).

Hay, O. P. 1902 A, 644.
Loomis, F. B. 1908 A, 52, 60, 62, fig. 13.
Matthew, W. D. 1909 C, 114 (Aphelops).
Merriam and Sinclair 1907 A, 195 (Aceratherium).
Peterson, O. A. 1920 A, 412, fig. 7 (Genus and species indeterminable).
Troxell, E. L. 1921 G, 198, 201, fig. 4 (This genus?).
Yates, L. G. 1903 A, 117 (Rhinoceros. This species?).
 Middle Miocene (Mascall); Oregon.

Diceratherium? pacificum (Leidy).

Hay, O. P. 1902 A, 644.
Buwalda, J. P. 1914 B, 306 (Diceratherium. This species?).
Cope and Matthew 1915 A, pl. civ, figs. 3, 4; pl. cv, figs. 6-18 (Aceratherium, Diceratherium).
Loomis, F. B. 1908 A, 55, 62, fig. 6.
Matthew, W. D. 1909 C, 108 (Cænopus?).
Merriam and Sinclair 1907 A, 186 (Aceratherium).
Peterson, O. A. 1920 A, 410; text-fig. 5 (This genus?).
Troxell, E. L. 1921 G, 201 (Not valid).
 Oligocene (John Day); Oregon: (Truckee beds); Nevada.
 The generic position of this species is doubtful.

Diceratherium petersoni Loomis.

Loomis, F. B. 1908 A, 57, 62, fig. 7.
Cook, H. J. 1912 D, 40.
Peterson, O. A. 1920 A, 413, fig. 9 ("incertæ sedis").
Troxell, E. L. 1921 G, 208 (Syn. of Metacænopus egregius).
 Miocene (Lower Harrison); Nebraska.

Diceratherium truquianum (Cope).

Hay, O. P. 1902 A, 644.
Matthew, W. D. 1909 C, 108 (Cænopus).
Merriam and Sinclair 1907 A, 186 (Aceratherium).
Peterson, O. A. 1920 A, 412, fig. 8.
Troxell, E. L. 1921 G, 201 (Not valid species).
 Upper Oligocene or Miocene? (John Day); Oregon.
 The generic position of this species is in doubt.

Diceratherium sp. indet.

Condon, T. 1902 A, 118, pls. xiii-xv ("rhinoceros").
 1910 A, 99, pls. xiii-xv ("rhinoceros").
Cook, H. J. 1912 D, 40. Miocene (Monroe Creek); Nebraska: 42. Miocene (Upper Harrison); Nebraska.
Lambe, L. M. 1914 H, 402. Oligocene; Wyoming.
Matthew, W. D. 1909 C, 113. Lower Miocene (Harrison, Rosebud); Nebraska, South Dakota.
Peterson, O. A. 1906 C, 24. Miocene (Monroe Creek); Nebraska.
Young and Cooper 1926 A, 5.

MENOCERAS Troxell. Type *Diceratherium cooki* Peterson.

Troxell, E. L. 1921 G, 206.
Weber and Abel 1928 A, 667.
Wood, H. E. 1927 B, 58, 70, 80.

Menoceras cooki (Peterson).

Peterson, O. A. 1906 D, 282 (Diceratherium).
 Unless otherwise indicated, the authors, as quoted, use for this species the generic name *Diceratherium*.
Abel, O. 1926 B, 374, fig. 241 (Diceratherium, Menoceras).
Barbour, E. H. 1906 C, 780, figs. 1, 2 (D. arikarense).
 1906 D, 313, figs. 1-5 (D. arikarense).
 1909 A, 252 (D. arikarense).
 1909 B, 253, pl. i (D. arikarense).
 1912 A, 51 (D. arikarense).
Cook, H. J. 1912 A, 29, figs. 1-3 (D. loomisi); 29 (D. aberrans); 30 (D. cooki, D. schiffi).
 1912 D, 40 (D. cooki; D. arikarense; D. schiffi); 41 (D. aberrans; D. loomisi; Metacœnopus? stigeri).
Loomis, F. B. 1908 A, 57, 62, fig. 8 (D. schiffi); 58, 62, fig. 9 (D. cooki); 59, 62, fig. 10 (D. aberrans); 60, fig. 14 (Aceratherium stigeri).
Loomis, F. B. 1923 A, 222 (Diceratherium).
Matthew, W. D. 1909 C, 113.
 1923 D, 359, figs. 6, 11.
Moodie, R. L. 1923 B, 270, pl. lii (D. cooki).
O'Harra, C. C. 1910 A, 90 (D. schiffi).
 1920 A, 156, pl. xxvi (D. cooki); 96, 156 (D. schiffi, D. arikarense).
Peterson, O. A. 1906 C, 47, pl. xv; text-figs. 12, 13.
 1911 C, 274, pl. xlv.
 1912 A, 801 (D. cooki, D. aberrans, D. loomisi).
 1920 A, 404, 406, pl. lviii; pls. lx-lxvi; text-figs. 4, 16-37; 409 (D. schiffi).
 1923 A, 91 (Diceratherium).
Scott, W. B. 1913 A, 239, fig. 129.
Troxell, E. L. 1921 G, 206, fig. 2 (Menoceras cooki, Diceratherium aberrans, D. arrikarense, D. loomisi, D. schiffi, D. stigeri).
 1922 D, 34.
Wood, H. E. 1927 B, 10, 55, 58, tab. vii.
Young and Cooper 1927 A, 1, 2, 4, fig. (D. cooki).
 Lower Miocene (Lower Harrison); Nebraska, Wyoming.

ACERATHERIINÆ Osborn.

Osborn, H. F., in Osborn and Wortman 1892 A, 93.
Hay, O. P. 1902 A, 645 (Elasmotheriinæ).
Breunig, S. 1924 A, 11, 36.
Dollo, L. 1885 C, 295 (Acerotheriinæ).
Lydekker, R. 1898 C, 88.
Osborn, H. F. 1901 H, 505.
1909 D, 61, 64, 67, 68.
Osborn, H. F. 1910 B, 605.
1923 F, 213 ("aceratheres").
Ringström, T. 1924 A, 73.
Schlosser, M. 1898 C, 390.
1903 C, 555, 558 (Aceratherinæ).
Trouessart, E. L. 1905 A, 626 (Elasmotheriinæ).
Weber and Abel 1928 A, 667, 668.

ACERATHERIUM Kaup. Type *Rhinoceros incisivus* Cuvier.

Hay, O. P. 1902 A, 645.
Abel, O. 1910 E, 8.
1914 A, 241.
Arldt, T. 1907 D, 635.
Beddard, F. E. 1902 A, 259.
Breunig, S. 1924 A, 11.
Bronn, H. G. 1838 A, 1289 (Acerotherium).
1848 A, 6.
Cooper, C. F. 1924 B, 387.
Cope, E. D. 1880 U, 156.
Cossman, M. 1899 A, 82.
1901 B, 188.
Depéret, C. 1904 B, 13, 17 (Acerotherium).
1912 A, 708.
Douglass, E. 1909 C, 231, 283.
Filhol, H. 1881 A, 1 (Acerotherium).
Gervais, P. 1859 A, 101.
Hoernes, R. 1886 A, 669.
Laloy, L. 1907 A, 585.
Lobley, J. L. 1908 A, 212.
Loomis, F. B. 1908 A, 52 ("aceratheres").
Osborn, H. F. 1907 G, 75, fig. 181.
1910 B, 605.
Palacký, J. 1903 B, 311.
Pictet, F. J. 1853 A, 296 (Acerotherium).
Roman, F. 1912 A, 9, 27 (Acerotherium).
Schlosser, M. 1898 C, 376.
1901 B, 304, 308.
1902 J, 257.
1903 G, 145.
1903 I, 67, 180, 209.
Schmidt, O. 1886 A, 195.
Seeley, H. G. 1878 A, 223 (Acerotherium).
Toula, F. 1902 A, 91.
Troxell, E. L. 1921 F, 42.
Weber, M. 1904 A, 625.
Zittel and Schlosser 1911 A, 452.
1923 A, 537.

At present no North American species are referred to this genus.

EPIAPHELOPS Cook. Type *E. virgasectus* Cook.

Cook, H. G. 1912 B, 219.
1912 C, 21.

Epiaphelops virgasectus Cook.

Cook, H. J. 1912 B, 219.
1912 C, 21, pl. i.
1912 D, 42.
O'Harra, C. C. 1920 A, 156.
Miocene (Harrison); Nebraska, Wyoming.

APHELOPS Cope. Type *A. megalodus* Cope.

Hay, O. P. 1902 A, 645.
Arldt, T. 1907 D, 258, 260.
Beddard, F. E. 1902 A, 260.
Breunig, S. 1924 A, 21.
Cope, E. D. 1880 U, 157.
Cummins, W. F. 1893 A, 203.
Dollo, L. 1885 C, 295, 297.
Douglass, E. 1909 A, 477.
Freudenberg, W. 1922 A, 10.
Furlong, E. L. 1927 A, 174.
Haug, E. 1911 A, 1705, 1706.
Hay, O. P. 1890 A, 16, 32, 34.
1919 D, 373.
Heilprin, A. 1887 A, 368.
Lane, H. H. 1927 A, 297.
Matsumoto, H. 1921 A, 90.
Matthew, W. D. 1909 C, 119.
1915 A, 240.
1917 A, 576.
1918 A, 202, 204.
1918 E, 153.
1924 C, 70.
1924 E, 748.
1926 A, 50.
1928 B, 979, fig. 15.
Matthew and Cook 1909 A, 300, 366.
1909 B, 197.
Merriam, J. C. 1917 A, 437.
Osborn, H. F. 1909 D, 78, 81.
1910 B, 606.
Palmer, T. S. 1904 A, 112, 939.
Peterson, O. A. 1928 A, 101 (Aphalops).
Schlosser, M. 1901 B, 304.
Trouessart, E. L. 1905 A, 627.
Wallace, A. R. 1876 A, I, 119, 136 (Acerotherium).
Weber and Abel 1928 A, xx, 668.
Zittel and Schlosser 1911 A, 453.
1923 A, 538, 673, 679, 680.

Aphelops brachyodus Osborn.

Osborn, H. F. 1904 D, 322, fig. 19 [A. (Diceratherium?)].
Matthew, W. D. 1909 C, 116 (Aphelops?).
O'Harra, C. C. 1920 A, 158.
Upper Miocene (Arikaree); South Dakota.

Aphelops ceratorhinus Douglass.

Douglass, E. 1903 A, 154, 195, figs. 33-35 (This genus?).

Cope and Matthew 1915 A, pl. cxlii.
Douglass, E. 1908 A, 258, 260, pl. lxiv; text-figs. 2-5.
Matthew, W. D. 1909 C, 116 (Aphelops?).
1918 A, 202, 204, fig. 9.
Osborn, H. F. 1904 D, 317, figs. 12, 13, 14.
1909 D, 80.
Peterson, O. A. 1928 A, 101, pl. x, figs. 1, 2, 5, 10-19 (Aphalops). Miocene or Pliocene (Brown's Park); Colorado: Upper Miocene (Arikaree); Montana.

Aphelops crassus (Leidy).

Hay, O. P. 1902 A, 645.
Matthew, W. D. 1901 B, 373 (Teleoceras).
1909 C, 116 (Teleoceras).
1918 B, 204 (Aphelops?).
1924 C, 66 (This species?).
Merrill, G. P. 1907 A, 59 (Rhinoceros).
Osborn, H. F. 1904 D, 308 (Rhinoceros).
Lower Pliocene (Upper Snake Creek); Nebraska: Upper Miocene (Arikaree); Nebraska, Texas.

Aphelops jemezanus Cope.

Hay, O. P. 1902 A, 646.
Matthew, W. D. 1901 B, 373 (Teleoceras).
1909 C, 116 (Aphelops?).
Merrill, G. P. 1907 A, 23.
Osborn, H. F. 1904 D, 310.
Upper Miocene (Arikaree): New Mexico.

Aphelops longipes (Leidy).

Hay, O. P. 1902 A, 646 (A. malacorhinus, in part).
1923 A, 479.
Matson and Clapp 1909 A, 137 (Rhinoceros).
Merrill, G. P. 1907 A, 59 (Rhinoceros).
Osborn, H. F. 1904 D, 314 (Rhinoceros).
1923 F, 215.
Sellards, E. H. 1914 A, 162 (A. malachorinus).
Trouessart, E. L. 1905 A, 627 (Syn. of A. malacorhinus).
Upper Pliocene or Lower Pleistocene (Alachua); Florida.

Aphelops malacorhinus Cope.

Hay, O. P. 1902 A, 646.
Cope and Matthew 1915 A, pls. cxxxix-cxliii.
Lane, H. H. 1927 A, 298 (Peraceras).
Matson and Clapp 1909 A, 137.
Matthew, W. D. 1901 B, 373 (Teleoceras).
1909 C, 116 (Aphelops?).
1918 A, 204.
1924 C, 150.
Merriam, J. C. 1917 A, 438, 439.
Merrill, G. P. 1907 A, 23.
Osborn, H. F. 1904 D, 307, 311, 314, figs. 5, 20, 21.
1909 D, 81.
1923 F, 214.
Pavlow, M. 1915 A, 17.
Sellards, E. H. 1916 B, 94.
Trouessart, E. L. 1905 A, 627.
Upper Miocene or Lower Pliocene (Republican River); Kansas, Nebraska?, Florida?.

Aphelops malacorhinus mutilus Matthew.

Matthew, W. D. 1924 C, 66 (A. mutilus); 150, figs. 41-43 (A. malacorhinus mutilus).
Lower Pliocene (Upper Snake Creek); Nebraska.

Aphelops? matutinus (Marsh).

Hay, O. P. 1902 A, 646.
Osborn, H. F. 1904 D, 309 (Rhinoceros).
Rhoads, S. N. 1903 A, 236 (Aceratherium).
Miocene; New Jersey.

Aphelops megalodus Cope.

Hay, O. P. 1902 A, 646.
Cook, H. J. 1927 B, 2.
Cope, E. D. 1891 N, 86, fig. 58.
Cope and Matthew 1915 A, pls. cxxv-cxvii; pls. cxix, cxxx, cxxxiv, fig. 3; pl. cxxxv, fig. 1.
Douglass, E. 1908 A, 259.
Matthew, W. D. 1909 C, 114.
1918 A, 203, pls. iv, v; text-fig. 10.
1924 C, 66, 150.
Osborn, H. F. 1904 D, 309, 324, figs. 3, 20, 21.
1923 F, 214.
Pavlow, M. 1915 A, 16.
Sternberg, C. H. 1909 C, 123.
Trouessart, E. L. 1905 A, 627.
Woodward, A. S. 1898 B, 334, fig. 192 [Aceratherium (Aphelops)].
1923 C, 29, fig. 11 (Aceratherium).
Middle Miocene (Pawnee Creek); Colorado. (Sheep Creek and Lower Snake Creek); Nebraska.

Aphelops meridianus (Leidy).

Hay, O. P. 1902 A, 646.
Deussen, A. 1924 A, 97, 99, explan. pl. xxviii (Cœnopus sp.).
Dumble, E. T. 1894 A, 558.
1903 A, 957.
1915 A, 473.
1920 A, 238.
Matthew, W. D. 1918 A, 204 (Aphelops??).
1920 E, 238.
Merrill, G. P. 1907 A, 59 (Rhinoceros).
Osborn, H. F. 1904 D, 308 (Rhinoceros).
Miocene (Oakville): Texas.

Aphelops montanus Douglass.

Douglass, E. 1908 A, 256, pl. lxiii; text-fig. 1.
Matthew, W. D. 1918 A, 204.
Middle Miocene (Flint Creek): Montana.

Aphelops planiceps Osborn.

Osborn, H. F. 1904 D, 321, fig. 18 [A. (Peraceras?)].
Matthew, W. D. 1909 C, 114.
1918 A, 209.
Middle Miocene (Pawnee Creek); Colorado.

Aphelops profectus (Matthew).

Hay, O. P. 1902 A, 646.
Matthew, W. D. 1901 B, 358, 373.
1909 C, 114.

Osborn, H. F. 1904 D, 317, fig. 15 (Aceratherium).
Trouessart, E. L. 1905 A, 627.
Middle Miocene (Pawnee Creek); Colorado.

Aphelops sp. indet.

Cook, H. J. 1912 D, 44 (Pliocene Snake Creek); Nebraska.
Deussen, A. 1924 A, 97. Miocene (Oakville); Texas.
Dumble, E. T. 1920 A, 232, 237 (This genus?). Neocene (Fleming); Texas.
Gidley, J. W. 1918 C, 180 (This genus?). Late Tertiary (Flaxville); Montana.
Gilbert, G. K. 1875 A, 543. (Rhinoceros) Pliocene?; New Mexico.
Hay, O. P. 1923 A, 479. Pleistocene?, Pliocene?; Florida.
1927 D, 101 (This genus?). Pleistocene; Oregon: 101, 266 (This genus?). Pleistocene (Idaho); Idaho.
Matthew, W. D. 1909 C, 114. Middle Miocene; Montana.
Matthew, W. D. 1915 L, 471, 472 (This species?). Miocene (Fleming); Texas.
1918 A, 205, figs. 12, 13. Pliocene (Snake Creek); Nebraska.
1920 E, 232, 237 (This genus?). Neocene (Fleming); Texas.
1923 A, 12. Lower Pliocene (Upper Snake Creek); Nebraska.
Merriam, J. C. 1911 B, 205, 214, 266, figs. 37, 38 (This genus?). Miocene (Virgin Valley); Nevada.
1917 A, 436. Pliocene (Snake Creek); Nebraska.
Merrill, G. P. 1907 A, 23 (This genus). Pliocene; Florida.
Moodie, R. L. 1923 B, 258, fig. 24.
Sellards, E. H. 1915 D, 106, 108, figs. 37-39 (This genus?). Miocene or Pliocene; Florida.
Sinclair, W. J. 1915 A, 76. Pliocene (Snake Creek); Nebraska.
Stock and Furlong 1926 A, 49, pl. ix. Pliocene (Ricardo); California.
Young and Cooper 1926 A, 5.
1927 A, 1.

PARAPHELOPS Lane. Type *P. rooksensis* Lane.

Lane, H. H. 1927 A, 300.

Paraphelops rooksensis Lane.

Lane, H. H. 1927 A, 300, pls. xxii-xxv.
Osborn, H. F. 1904 D, 312, "No. 10878" (Peraceras superciliosus).
Upper? Miocene (Republican River); Kansas: "Loup Fork"; South Dakota.

PERACERAS Cope. Type *Aphelops superciliosus* Cope.

Hay, O. P. 1902 A, 645 (Aphelops, in part).
Beddard, F. E. 1902 A, 262.
Cook, H. J. 1927 B, 1.
Dollo, L. 1885 C, 295, 299.
Haug, E. 1911 A, 1706.
Laloy, L. 1907 A, 585.
Lane, H. H. 1927 A, 297.
Matsumoto, H. 1921 A, 90.
Matthew, W. D. 1909 C, 119.
1918 A, 202, 207.
1918 E, 153.
1924 C, 69, 151.
1926 A, 50.
Osborn, H. F. 1909 D, 79, 80, 81.
1910 B, 348, 349, 350, 352, 557.
1912 G, 250.
1918 A, 27.
Palmer, T. S. 1904 A, 521, 940.
Scott, W. B. 1913 A, 332.
Stock and Furlong 1926 A, 4.
Weber and Abel 1928 A, xxii, 668.
Zittel and Schlosser 1911 A, 453.
1923 A, 538.

Peraceras superciliosus Cope.

Hay, O. P. 1902 A, 646 (Aphelops).
Cope and Matthew 1915 A, pls. cxliv, cxliv*b*.
Lane, H. H. 1927 A, 306.
Matthew, W. D. 1901 B, 373 (Teleoceras).
1909 C, 116.
1918 A, 186, 203, 207, fig. 10.
1924 C, 151.
Merriam, J. C. 1917 A, 438.
Osborn, H. F. 1904 D, 307, 312, 324, figs. 6, 20, 21.
Lower Pliocene (Republican River); Kansas, Nebraska.

Peraceras troxelli Matthew.

Matthew, W. D. 1918 A, 208, pls. vi-ix; text-fig. 9.
1924 C, 151.
Pliocene (Lower); Nebraska.

Peraceras sp. indet.

Matthew, W. D. 1923 A, 12. Lower Pliocene (Upper Snake Creek); Nebraska.
1924 C, 66, 150. Lower Pliocene (Snake Creek); Nebraska.
Stock and Furlong 1926 A, 50 (This genus?). Pliocene (Ricardo); California.

TELEOCERATINÆ Hay.

Hay, O. P. 1902 A, 646.
Breunig, S. 1924 A, 21 (Brachypodinæ).
Osborn, H. F. 1901 H, 505 (Brachypodinæ).
1909 D, 76, 136 (Teleocerinæ).

Osborn, H. F. 1910 B, 633.
1923 F, 216 (Brachypodinæ).
Palmer, T. S. 1904 A, 773, 939.
Schlosser, M. 1903 C, 557 (Brachypodinæ).
Weber and Abel 1928 A, 669 (Teleocerinæ).

TELEOCERAS Hatcher. Type *T. major* Hatcher.

Hay, O. P. 1902 A, 646.
Bach, F. 1909 A, 760.
Beddard, F. E. 1902 A, 260 (Syn. of Aphelops)
Breunig, S. 1924 A, 21.
Cooper, C. F. 1924 B, 372, 385.
Depéret, C. 1906 B, 1121.
Gregory, W. K. 1912 F, 288.
Haug, E. 1911 A, 1705, 1706.
Hay, O. P. 1919 D, 373.
1923 A, 497.
Lane, H. H. 1927 A, 297.
Lee, Stone and Gale 1915 A, 34, pl. vi.
Matsumoto, H. 1918 C, 80.
1921 A, 76, 87, 88.
Matthew, W. D. 1909 C, 119.
1915 A, 240.
1917 A, 576.
1918 A, 201, 209.
1918 E, 153.
1924 C, 70.
1924 E, 748.
1926 A, 50.
1928 B, 979, fig. 15.
Matthew and Cook 1909 A, 366, 384.
1909 B, 197.
Merriam, J. C. 1917 A.
Osborn, H. F. 1902 D, 263, fig. 3.
1904 D, 315.
1905 I, 92.
1907 G, 232, fig. 212.
1909 D, 136.
1910 B, 633.
1918 A, 24, 33.
1923 F, 216, 225, fig.
Palmer, T. S. 1904 A, 667, 940.
Pilgrim, G. E. 1912 A, 30.
1913 A, 312.
Repelin, J. 1916 A, 982.
Ringström, T. 1924 A, 26, 66, 68.
Rogers, A. F. 1924 A, 545.
Schlosser, M. 1901 B, 307.
1902 J, 242.
1903 I, 211.
Scott, W. B. 1913 A, 331, 350.
Spencer, J. W. 1898 A, 26 ("rhinoceros").
Sternberg, C. H. 1906 A, 72.
Weber, M. 1904 A, 627.
Weber and Abel 1928 A, 670.
Zittel and Schlosser 1911 A, 453.
1923 A, 538, 673, 679.

Teleoceras felicis Freudenberg.

Freudenberg, W. 1922 A, 5 (Syn.? of Rhinoceros longipes Leidy).
1921 A, 139 [T. (Aphelops); name only].
Felix and Lenk 1891 A, 133, pl. xxx, fig. 9 (Aphelops sp.).
Pleistocene?; Mexico.

Teleoceras fossiger (Cope).

Hay, O. P. 1902 A, 646.
Barbour, E. H. 1914 C, 222.
Barbour, E. H. 1915 A, 92.
Beddard, F. E. 1902 A, 261, fig. 135 (Aphelops).
Cockerell, T. D. A. 1923 D, 276, figs. 6, 7.
Cook, H. J. 1927 B, 1.
Cope and Matthew 1915 A, pls. cxxxi, cxxxii (Aphelops, Teleoceras, Eusyodon); pl. cxxxiii; pl. cxxxiv, figs. 1, 2; pl. cxxxv, fig. 2; pl. cxxxvi (T. = Eusyodon); pl. cxxxvii (Aphelops, Teleoceras); pl. cxxxviii.
Felix and Lenk 1891 A, 133, pl. xxx, fig. 9.
Figgins, J. D. 1921 A, 11, 19, 2 figs. (Teleoceros).
Freudenberg, W. 1922 A, 5, 19 (Rhinoceros, Aphelops).
Gidley, J. W. 1903 C, 634 (Aphelops).
Hay, O. P. 1927 D, 266-269.
Koken, E. 1901 B, 223.
Lane, H. H. 1927 A, 299.
Lindgren, W. 1900 A, 99 (Aphelops).
Lucas, F. A. 1900 in Lindgren, W.
1900 A, 99.
Matsumoto, H. 1921 A, 87.
Matthew, W. D. 1901 B, 373.
1909 C, 116.
1918 A, 202, 206, fig. 9 (T. fossiger); 209 (T. major, a syn.).
1923 A, 12 (This species?).
1924 C, 66, 73 (This species?).
Merriam, J. C. 1917 A, 428, 429, 438 (This species?); 432 (Aphelops).
Merriam and Stock 1928 A, 17, pls. ii, iii; text-fig. 11.
Merriam, Stock, Moody 1925 A, 54, 81, fig. 36 ("T.? near fossiger"). Pliocene (Rattlesnake); Oregon.
Merrill, G. P. 1907 A, 23 (Aphelops), 20 (Aceratherium acutum); 27 (Aphelops fossiger. This species?).
Newberry, J. S. 1870 D, 28 ("rhinoceros." This species?).
Osborn, H. F. 1899 K, 274, fig. 5.
1904 D, 307, 310, figs. 1, 4, 20, 21 (Aphelops); 313 (Aceratherium acutum, a syn.).
1904 F, 29, 48.
1905 I, pl. viii.
1910 B, 349, 350, fig. 161.
1923 F, 217, fig.
Palacký, J. 1903 B, 105 ("rhinoceros").
Pavlow, M. 1915 A, 16.
Pilgrim, G. E. 1912 A, 31.
Ringström, T. 1924 A, 70, figs. 49, 91.
Schlosser, M. 1901 H, 499-500.
1903 I, 62.
Scott, W. B. 1913 A, 230, fig. 125.
Sternberg, C. H. 1899 B, 105 ("rhinoceros").
1906 A, 72 (Aphelops).
1907 C, 123.
1909 C, 127, 134, fig. 25.
Stock, C. 1925 A, 18.
Stock and Furlong 1926 A, 49.
Toula, F. 1902 A, 9 (Aceratherium).
Trouessart, E. L. 1905 A, 627.
Troxell, E. L. 1916 A, 347.

Villada, M. M. 1903 A, 447, pl. iii (Aphelops. This species?).
Weber and Abel 1928 A, 669, fig. 457.
Wood, H. E. 1927 B, tab. vii.
Zittel and Schlosser 1911 A, 453.
1923 A, 538, fig. 667.
Pliocene (Republican River); Kansas: Lower Pliocene (Upper Snake Creek); Nebraska: Pliocene?; Colorado: Pleistocene? (Idaho); Idaho.

Teleoceras hicksi Cook.

Cook, H. J. 1927 B, 1, 4, figs.
Pliocene; Colorado.

Teleoceras major Hatcher.

Hay, O. P. 1902 A, 646 (T. fossiger, in part).
Lane, H. H. 1927 A, 299.
Matthew, W. D. 1918 A, 209 (Syn? of T. fossiger).
Osborn, H. F. 1904 D, 314, fig. 10.
Miocene (Upper); Nebraska.

Teleoceras medicornutus Osborn.

Osborn, H. F. 1904 D, 319, fig. 17.
Matsumoto, H. 1921 A, 87.
Matthew, W. D. 1909 C, 114.
1918 A, 203, fig. 10.
1924 C, 66, 72, 150.
Osborn, H. F. 1905 I, 106, pl. vii, fig. 1 (T. bicornutus).
1910 B, 252, 292, 352, fig. 127.
Ringström, T. 1924 A, 66.
Scott, W. B. 1913 A, 333.
Upper Miocene (Pawnee Creek); Colorado: (Lower Snake Creek); Nebraska.

Teleoceras minor Olcott.

Olcott, T. F. 1909 A, 403.
Ringström, T. 1924 A, 66.
Miocene (Arikaree); Nebraska.

Teleoceras proterus (Leidy).

Leidy, J. 1885 A, 33 (Rhinoceros).
Hay, O. P. 1902 A, 646 (T. fossiger, in part).
Allen, G. M. 1926 A, 454 (This genus?).
Gidley, J. W. 1915 D, 21 (T. fossiger).
Hay, O. P. 1923 A, 497.
Leidy, J. 1885 C, 834 (Rhinoceros).
Matson, G. C. 1915 A, 37, pl. xii, fig. E ("rhinoceros").
Matson and Clapp 1909 A, 136 (Rhinoceros).
Matthew, W. D. 1909 C, 116 (T. fossiger, in part).
Merriam, J. C. 1917 A, 439 (T. fossiger proterus).
Merriam, Stock, Moody 1925 A, 81 (T. fossiger).
Merrill, G. T. 1907 A, 60 (Rhinoceros).
Neal, J. C. 1885 A, 834 (Rhinoceros).
Osborn, H. F. 1904 D, 313 (Rhinoceros proterus, Eusyodon maximus, syns. of T. fossiger).
1910 B, 348 (T. fossiger).
Sellards, E. H. 1914 A, 162 (T. fossiger).
1915 A, 135 (T. fossiger).
1915 D, 72 (T. fossiger).
1916 B, 94 (T. fossiger proterus).
Spencer, J. W. 1895 A, 131 (Rhinoceros).
Trouessart, E. L. 1905 A, 627 (Syn. of T. fossiger).
Pliocene? (Alachua); Florida.

Teleoceras sp. indet.

Barbour, E. H. 1927 A, 133. Pleistocene? (Early); Nebraska.
Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Cook, H. J. 1912 D, 44. Pliocene (Snake Creek); Nebraska.
Douglass, E. 1908 A, 263, fig. 7 (This genus?).
Dumble, E. T. 1920 A, 232 (This genus?). Neocene (Fleming); Texas.
Felix and Lenk 1891 A, 133, pl. xxx, fig. 9 ("Aphelops sp." This genus?). Pliocene or Pleistocene; Mexico.
Freudenberg, W. 1922 A, 4. Pliocene; Mexico.
Gidley, J. W. 1918 C, 180 (This genus?). Late Tertiary (Flaxville); Montana.
Hay, O. P. 1923 A, 380. Pliocene? (Phosphate mines); Florida.
1924 D, 312. Pliocene?; Montana.
Matthew, W. D. 1909 C, 114. Miocene (Arikaree); South Dakota.
1918 A, 186, 210, 211, fig. 14. Pliocene (Snake Creek); Nebraska.
1920 E, 232 (This genus?). Neocene (Fleming); Texas.
Merriam, J. C. 1911 B, 216, 267 (This genus?). (Virgin Valley and Thousand Creek beds); Nevada.
1917 A, 425, 426 (This genus?). (Etchegoin): California; 436 (Snake Creek); Nebraska.
Rath, G. 1886 A, 106 ("Rhinoceros." This genus?). Pliocene?; Mexico.
Sellards, E. H. 1915 D, 72, figs. 37-39. Pliocene; Florida.
Sinclair, W. J. 1915 A, 76. Pliocene (Snake Creek); Nebraska.
Stock, C. 1921 A, 258, fig. 7 (This genus?). Pliocene? (Panaca); Nevada.

Order ARTIODACTYLA Owen.

Hay, O. P. 1902 A, 647.
Abel, O. 1904 B, 743 ("artiodactylen").
1910 B (186).
1912 D, 604 ("paraxonier").
1912 F, 236 ("paraxonier").
1913 B, 729, 737.
1914 A, 121.
1919 A, 799.
1920 A, 434.
Abel, O. 1921 A, 253 ("artiodaktylen").
Adloff, P. 1920 A, 181 ("artiodactylen").
Allen, J. A. 1913 B, 454 ("artiodactyls").
Ameghino, F. 1889 A, 1006.
1897 B, 262 ("artiodactyles").
1906 A, 341, 404 ("artiodactyles").
1912 B, 171 ("artiodactyles").
Bayer, F. 1897 A, 149.
Beddard, F. E. 1902 A, 269.

Behlen, H. 1906 A ("paarhufer").
Bensley, B. A. 1901 C, 252.
1902 A, 4 ("artiodactyls").
Bertelli, D. 1909 A, 166 ("artiodattili").
Black, D. 1915 A, 353.
Blainville, H. M. D. 1819 A, 41 ("ongulés à système de doigts pair").
Boas, J. E. V. 1884 B, 394 ("artiodactylen").
1914 B, 577, 589 ("artiodactylen").
Branca, W. 1907 A, 9.
Broom, R. 1915 A, 162.
Brown, A. E. 1904 B, 56.
Burmeister, H. 1879 B, 452 (Paridigitata).
Carus, V. 1875 A, 140.
Clark and Sonntag 1926 A, 454.
Cope, E. D. 1885 BB, 72.
1891 N, 84, 90.
Depéret, C. 1904 B, 43 ("paridigités").
1907 B ("paridigités").
Dollo, L. 1889 D, 680 ("artiodactyles").
Doran, A. H. G. 1878 A, 421.
Fairchild, H. L. 1894 A, 207.
Flower, W. H. 1873 B, 95 ("artiodactyles").
1892 A, 13.
Frassetto, F. 1915 A ("artiodattili").
Freund, L. 1906 A, 115 ("wiederkäuer").
Gaudry, A. 1908 A, 1133 ("artiodactyles").
Gaupp, E. 1905 D, 1037.
1906 B, 850.
1913 A, 125 ("artiodactylen").
Gervais, P. 1852 A, 68, 197, explan. pl. xxxvi ("bisulques").
1859 A, 129 ("bisulques").
Gregory, W. K. 1910 A, 90, 347, 400-406, 410, 448, 456, 466.
1912 F, 294.
1920 A, 186, 243.
Haeckel, E. 1868 A, 478.
1873 A, 544, 554.
Hay, O. P. 1912 D, 594.
1914 A, 210.
Heilprin, A. 1887 A, 373.
Hensel, R. 1879 A, 554 ("paridigitaten").
Hescheler, K. 1906 A, 30 ("paarhufer").
Hilzheimer, M. 1913 A, 567 ("paarhufer").
Hoernes, R. 1886 A, 672.
Hogben, L. T. 191[illegible] A, 75 ("artiodactyls").
Huxley, T. H. 1863 E, 555.
1870 F, 527.
1880 E, 460 ("artiodactyles").
Jaekel, O. 1911 A, 232 (Diungulati).
Kampfen, P. N. 1905 A, 583.
Kingsley, J. S. 1925 A, 213, 261, 299, fig. 320.
Knottnerus-Meyer, T. 1907 A, 6, 97, 102.
Koken, E. 1893 B, 482, 500 ("paarhufer").
Kükenthal, W. 1913 A, 682.
Leche, W. 1887 A.
1900 A, 1035.
Leunis and Ludwig 1883 A, 236.
Loomis, F. B. 1925 B, 226 ("artiodactyls").
1925 E, 583.
Lubosch, W. 1926 A, 116, fig. 9 ("paarhufer").
Lull, R. S. 1904 C, 2.
1917 B, 295.
Lydekker, R. 1907 B, 13.
1913 B, 3.
Major, C. J. F. 1880 A, 26, 35 (Paridigitata).
1899 B, 62.
Matthew, W. D. 1901 B, 395.
1909 C, 122.
1909 D, 302, 333, 485, 550.
1910 G, 160.
1915 A, 241, 254, fig. 27.
1915 K, 456.
1921 D, 214.
1928 B, 948, 961, 964, 968, 970.
Mead, C. S. 1906 A, 482.
Meckel, J. F. 1823 A, 18 ("paarhufer").
Miller, G. S. 1912 B, 383.
1924 C, 481.
Mitchell, P. C. 1905 A, 469.
Moodie, R. L. 1922 C, 365.
Mysberg, W. A. 1917 A, 656.
Osborn, H. F. 1902 E, 356, fig. 1.
1905 H, 216, fig. 2.
1905 I, 99.
1905 N, 242 ("artiodactyls").
1907 G, 14, 84, 171.
1909 D, 122.
1910 B, 687.
1912 A, 94.
1925 B, 18.
1925 C, 750.
Owen, R. 1857 E.
1858 A, 27.
1868 A, 862.
Palacký, J. 1903 B, 305.
Parker and Haswell 1897 A, 452, 506.
Petersen, G. 1921 A.
Peterson, O. A. 1912 B, 162.
Pictet, F. J. 1853 A, 319 ("artiodactyles").
Popowa, N. 1913 A, 279.
Puccioni, N. 1908 A, 41 ("artiodattili").
Rehs, J. 1914 A, 2, 48.
Reynolds, S. H. 1897 A, 489, 533.
Rosenberg, A. 1873 A, 120.
Schlosser, M. 1898 B, 360.
1899 T, 454 ("paarhufer").
1903 A, 288 ("artiodactylen").
1905 A, 324.
1911 A, 165 ("artiodactylen").
Schmidt, O. 1886 A, 127, 135, 189.
Sclater, P. L. 1866 A, 403.
Scott, W. B. 1896 D, 47, 57, 60 ("artiodactyls").
1913 A, 676.
1916 A, 116.
1928 B, 257.
Seeley, H. G. 1878 A, 224.
Sefve, I. 1913 A, 362 ("paraxonier").
Stehlin, H. G. 1905 A, 582 ("artiodactylen").
1910 A, 1134 ("artiodactylen").
1916 B, 1531 ("artiodactylen").
Steinmann, G. 1907 A, 493.
Stromer, E. 1902 B, 561 ("artiodactylen").
1912 A, 195, 244.
Taschenberg, O. 1899 A, 4434.
Terra, P. 1911 A, 316.
Thacker, A. G. 1922 A, 600, 603.
Tornier, G. 1888 A, 226.
1894 B, 103 ("artiodactylen").
1909 C, 540 ("artiodactylen").
Trouessart, E. L. 1905 A, 647.
Underhill, B. M. 1910 A, 81.
Van Bemmelen, J. F. 1918 A, 571.
Wallace, A. R. 1876 A, I, 126, 137, 146.
Walmsley, T. 1918 A, 326.

Weber, M. 1904 A, 588, 628 (Artiodactyla); 591, 628 (Paraxonia).
Weber and Abel 1928 A, 415, 423, 426, 517, 537, 881, fig. 258.
Wilder, B. 1872 B, 320.
Woodward, A. S. 1898 D, 331, 335.
Woodward, H. 1904 B, 161.
Wortman, J. L. 1903 A, 430.
Wright, R. R. 1883 A, 262.
Zierler, F. E. 1905 A, 514.
Zittel and Schlosser 1911 A, 468.
1923 A, 556, 669.

Suborder Suiformes Jaekel.

Jaekel, O. 1911 A, 233.
Ameghino, F. 1889 A, 1025 (Suina).
Beddard, F. E. 1902 A, 273 (Suina).
Gray, J. E. 1869 A, 325 (Setifera).
Haeckel, E. 1873 A, 554 (Chœromorpha).
Hensel, R. 1879 A, 555 ("bunodonten paarzeher").
Hogben, L. T. 1919 A, 75 (Suina).
Kükenthal, W. 1913 A, 683 (Non-ruminantia).
Lydekker, R. 1913 B, 7 (Suina).
1915 D, 305 (Suina).
Matthew, W. D. 1924 C, 176 (Suina).
Matthew, W. D. 1928 B, 968, 981, fig. 16 ("suillines").
Osborn, H. F. 1910 B, 548 (Suina).
Reynolds, S. H. 1897 A, 466, 523, 556, fig. 94 (Suina).
Rutland, J. 1901 A, 21033 (Omnivora).
Scott, W. B. 1913 A, 361, 362 (Suina).
Terra, P. 1911 A, 317 (Bunodontia).
Weber and Abel 1828 A, 426, 538, 545 (Neobunodontia).
Wright, R. R. 1883 A, 263 (Suina).
Zittel and Schlosser 1911 A, 472 (Bunodontia).
1923 A, 560 (Bunodontia).

Superfamily DICHOBUNOIDÆ, new form.

Gill, T. 1872 B, 10, 81 (Anoplotheroidea).
Stromer, E. 1911 A, 197 (Bunoselenodontia, part).
Weber, M. 1904 A, 688 (Dichobunoidea).
Zittel and Schlosser 1911 A, 476 (Bunoselenodontia, part).
1925 A, 564 (Bunoselenodontia, part).

LEPTOCHŒRIDÆ Marsh.

Marsh, O. C. 1894 L, 273.
Hay, O. P. 1902 A, 656 (Hyotheriinæ, in part).
Matthew, W. D. 1901 B, 443.
1909 C, 104, 106, 109, 111.
O'Harra, C. C. 1910 A, 106, 128.
Osborn, H. F. 1909 D, 63, 69.
Palmer, T. S. 1904 A, 750, 927.
Scott, W. B. 1913 A, 361.
Zittel and Schlosser 1911 A, 475.
1923 A, 563.

Leptochœrus Leidy. Type *L. spectabilis* Leidy.

Hay, O. P. 1902 A, 657 (Leptochœrus); 792 (Menotherium).
Delafontaine, M. 1875 A, 171 (Laopithecus).
Giebel, C. G. 1883 A, 124.
Hatcher, J. B. 1901 A, 134.
Haug, E. 1911 A, 1528, 1529.
Hay, O. P. 1923 A, 14.
Heilprin, A. 1887 A, 400 (Laopithecus).
Matthew, W. D. 1901 B, 369, 375, 443.
1909 C, 111.
1915 K, 420.
1924 E, 748.
Osborn, H. F. 1902 C, 169.
1905 H, 219 (Laopithecus, Menotherium).
1905 I, 104 (Laopithecus, Menotherium).
1907 G, 173, fig. 157.
Palacký, J. 1903 B, 312.
Palmer, T. S. 1904 A, 364, 928 (Laopithecus); 371, 928 (Leptochœrus); 410, 929 (Menotherium).
Trouessart, E. L. 1905 A, 656.
Wallace, A. R. 1876 A, I, 133 (Laopithecus, Menotherium); 137 (Leptochœrus); II, 215.
Zittel and Schlosser 1911 A, 475.
1923 A, 563.

Leptochœrus gracilis Marsh.

Hay, O. P. 1902 A, 657.
Cook, H. J. 1912 D, 37.
Hatcher, J. B. 1901 A, 131, pl. i, fig. 4.
Matthew, W. D. 1901 B, 443.
1909 C, 106.
O'Harra, C. C. 1920 A, 152.
Oligocene (Brule); Nebraska.

Leptochœrus lemurinus (Cope).

Hay, O. P. 1902 A, 792 (Menotherium).
Matthew, W. D. 1901 B, 357.
1909 C, 106.
Osborn, H. F. 1902 C, 174.
Seeley, H. G. 1886 A, 514 (Menotherium).
Trouessart, E. L. 1905 A, 656.
Middle Oligocene (Cedar Creek); Colorado.

Leptochœrus robustus (Marsh).

Hay, O. P. 1902 A, 792 (Menotherium).
Baird, S. F. 1876 A, 336 (Laopithecus).
Matthew, W. D. 1909 C, 106.
Osborn, H. F. 1902 C, 174.
Trouessart, E. L. 1905 A, 656 (Syn. of L. spectabilis).
Middle Oligocene (Cedar Creek); Colorado.

Leptochœrus spectabilis Leidy.

Hay, O. P. 1902 A, 657.
Cook, H. J. 1912 D, 37.
Giebel, C. G. 1883 A, pl. xliii.
Matthew, W. D. 1901 B, 357.
1909 C, 106.
O'Harra, C. C. 1910 A, 106, 128.
1920 A, 152.
Trouessart, E. L. 1905 A, 656.
Upper Oligocene (Brule); Nebraska.

Leptochœrus sp. indet.

Cook, H. J. 1912 D, 39. Upper Oligocene (Brule); Nebraska.
Hay, O. P. 1914 A, 26.
Matthew, W. D. 1909 C, 109. Upper Oligocene (Brule); Nebraska.

STIBARUS Cope. Type *S. obtusilobus* Cope.

Hay, O. P. 1902 A, 672.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1903 B, 220.
1909 C, 111.
Palmer, T. S. 1904 A, 648, 929.
Scott, W. B. 1913 A, 361.
Trouessart, E. L. 1905 A, 684.

Stibarus montanus Matthew.

Matthew, W. D. 1903 B, 219, fig. 13.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 104.
Trouessart, E. L. 1905 A, 684.
Oligocene (Lower); Montana: (Chadron); Nebraska.

Stibarus obtusilobus Cope.

Hay, O. P. 1902 A, 672.
Matthew, W. D. 1901 B, 358.
1903 B, 219, 220, fig. 12.
1909 C, 106.
Palacký, J. 1903 B, 312.
Trouessart, E. L. 1905 A, 684.
Middle Oligocene (Cedar Creek); Colorado.

Stibarus quadricuspis (Hatcher).

Hatcher, J. B. 1901 A, 131, pl. i, fig. 3 (Leptochœrus).
Matthew, W. D. 1903 B, 230 (To Stibarus?).
1909 C, 106.
O'Harra, C. C. 1920 A, 153.
Trouessart, E. L. 1905 A, 656 (Leptochœrus).
Middle Oligocene (Brule); Nebraska.

DICHOBUNIDÆ Gill.

Gill, T. 1872 B, 74, 81.
Abel, O. 1914 A, 154.
1920 A, 434 ("dichobuniden").
Cope, E. D. 1887 B, 379, 382.
Falconer, H. 1868 A, I, 225 ("dichobunes").
Gervais, P. 1852 A, explan. pl. xxxv, 6 (Dichobune).
1859 A, 198, pl. xvii (Dichobune).
Gregory, W. K. 1920 A, 188.
Kowalewsky, W. 1877 A, 152 (Dichobune).
Loomis, F. B. 1925 E, 584, 588, 590, figs. 2-4.
Major, C. J. F. 1877 A, 13, 14 (Dichobune).
Matthew, W. D. 1909 C, 95, 98, 99, 103, 106.
1914 B, 387.
1915 K, 474.
Matthew, W. D. 1921 D, 214.
Matthew and Granger 1925 D, 7 (Dichobunidæ, Helohyidæ).
Osborn, H. F. 1909 D, 36, 57.
Roger, O. 1896 A, 220 (Dichobuninæ).
Rütimeyer, L. 1892 A, 109, fig. *d.* (Dichobune).
Schlosser, M. 1921 A, 123, 126.
Scott, W. B. 1913 A, 361, 398.
Sinclair, W. J. 1914 A, 294 ("dichobunids").
Trouessart, E. L. 1905 A, 679 (Dichobuniæ).
Weber, M. 1904 A, 688.
Weber and Abel 1928 A, 617.
Zittel, K. A. 1893 B, 374 (Dichobuninæ).
Zittel and Schlosser 1911 A, 479.
1923 A, 568.

BUNOPHORUS Sinclair. Type *Trigonolestes etsagicus* Cope.

Sinclair, W. J. 1914 A, 273.
Lydekker, R. 1915 C, 620.
Peterson, O. A. 1919 A, 75.
Weber and Abel 1928 A, 617, 618.
Zittel and Schlosser 1923 A, 569, 666.

Bunophorus etsagicus (Cope).

Hay, O. P. 1902 A, 649 (Trigonolestes).
Loomis, F. B. 1907 B, 357 (Trigonolestes).
Matthew, W. D. 1909 C, 98 (Helohyus).
Sinclair, W. J. 1914 A, 273, fig. 7.
Trouessart, E. L. 1905 A, 647 (Trigonolestes).
Zittel and Schlosser 1923 A, 569.
Lower Eocene (Wasatch); Wyoming.

Bunophorus macropternus (Cope).

Hay, O. P. 1902 A, 604 (Phenacodus).
Matthew, W. D. 1909 C, 94 (Phenacodus).
Sinclair, W. J. 1914 A, 275, fig. 8.
Lower Eocene (Wasatch); Wyoming.

WASATCHIA Sinclair. Type *W. grangeri* Sinclair.

Sinclair, W. J. 1914 A, 268.
Lydekker, R. 1915 C, 620.
Weber and Abel 1928 A, 618.
Zittel and Schlosser 1923 A, 569, 666.

Wasatchia dorseyana Sinclair.

Sinclair, W. J. 1914 A, 269, figs. 2-4.
Lower Eocene (Wasatch); Wyoming.

Wasatchia grangeri Sinclair.

Sinclair, W. J. 1914 A, 269, fig. 1.
Lower Eocene (Wasatch); Wyoming.

Wasatchia lysitensis Sinclair.

Sinclair, W. J. 1914 A, 271, figs. 5, 6.
Lower Eocene (Wind River); Wyoming.

LOPHIOHYUS Sinclair. Type *L. alticeps* Sinclair.

Sinclair, W. J. 1914 A, 276.
Weber and Abel 1928 A, 542.

Lophiohyus alticeps Sinclair.

Sinclair, W. J. 1914 A, 276, figs. 9-11.
Abel, O. 1922 C, 276, fig. 233.
Middle Eocene (Bridger); Wyoming.

ANTIACODON Marsh. Type *A. venustus* Marsh.

Hay, O. P. 1902 A, 787.
Chapman, H. C. 1904 A, 150 (=Anaptomorphus).
Matthew, W. D. 1909 C, 96, 101.
Osborn, H. F. 1910 B, 547.
Palmer, T. S. 1904 A, 109, 898.

Antiacodon venustus Marsh.

Hay, O. P. 1902 A, 787.
Matthew, W. D. 1909 C, 96.
Osborn, H. F. 1902 C, 173 (To Homacodon?).
Middle Eocene (Bridger); Wyoming.

BUNOMERYX Wortman. Type *B. elegans* Wortman.

Hay, O. P. 1902 A, 650.
Cossmann, M. 1899 B, 83.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 103.
Osborn, H. F. 1907 G, 172, fig. 154.
1910 B, 170, 547.
Palmer, T. S. 1904 A, 147, 927.
Peterson, O. A. 1919 A, 67, 73.
Schlosser, M. 1901 D, 463.
Scott, W. B. 1913 A, 361.
Stehlin, H. G. 1906 A, 671.
Trouessart, E. L. 1905 A, 648.
Weber, M. 1904 A, 661, 664.
Winge, H. 1906 A, 95.
Zittel and Schlosser 1911 A, 484.
1923 A, 574, 669.

Bunomeryx elegans Wortman.

Hay, O. P. 1902 A, 650.
Matthew, W. D. 1909 C, 99.
Peterson, O. A. 1919 A, 67, pl. xxxvii, fig. 18.
Schlosser, M. 1901 D, 463.
Stehlin, H. G. 1906 A, 671.
Upper Eocene (Uinta); Utah.

Bunomeryx montanus Wortman.

Hay, O. P. 1902 A, 650.
Matthew, W. D. 1909 C, 99.
Peterson, O. A. 1919 A, 66, 72.
Schlosser, M. 1901 D, 462.
Stehlin, H. G. 1906 A, 671.
Upper Eocene (Uinta); Utah.

HOMACODON Marsh. Type *H. vagans* Marsh.

Hay, O. P. 1902 A, 649.
Beddard, F. E. 1902 A, 280.
Fairchild, H. L. 1894 A, 208.
Granger, W. 1909 A, 22.
Matthew, W. D. 1909 C, 98, 103.
1909 D, 522.
1924 E, 748.
1928 B, 981, fig. 16.
Osborn, H. F. 1902 C, 173.
1910 B, 157, 547.
Palmer, T. S. 1904 A, 329, 927.
Peterson, O. A. 1919 A, 69, 70, 73.
Schlosser, M. 1901 D, 462, 466.
1903 A, 289.
1903 I, 112.
Scott, W. B. 1913 A, 273, 398.
Sinclair, W. J. 1914 A, 284.
Stehlin, H. G. 1910 A, 1094.
Trouessart, E. L. 1905 A, 648.
Weber, M. 1904 A, 644.
Weber and Abel 1928 A, 618.
Zittel and Schlosser 1911 A, 480.
1923 A, 569, 667.

Homacodon priscus Marsh.

Hay, O. P. 1902 A, 650.
Ameghino, F. 1905 A, 32, fig. 37.

Stehlin, H. G. 1906 A, 669.
Eocene; Wyoming, New Mexico.

Homacodon pucillus Marsh.

Hay, O. P. 1902 A, 650.
Stehlin, H. G. 1906 A, 669.
Eocene; Wyoming, New Mexico.

Homacodon vagans Marsh.

Hay, O. P. 1902 A, 650.
Abel, O. 1922 C, 277, fig. 234.
Beddard, F. E. 1902 A, 280.
Gregory, W. K. 1920 A, 186.
Lydekker, R. 1915 C, 619, fig. 1.
Matthew, W. D. 1909 C, 98 (This species?).
Peterson, O. A. 1919 A, 68.
Sinclair, W. J. 1914 A, 286, figs. 19, 20.
Stehlin, H. G. 1906 A, 669.
Trouessart, E. L. 1905 A, 648.
Weber and Abel 1928 A, 618, fig. 414.
Zittel and Schlosser 1911 A, 480.
1923 A, 569, fig. 709.
Middle Eocene (Lower Bridger); Wyoming.

Homacodon sp. indet.

Matthew, W. D. 1909 C, 98. Middle Eocene (Bridger); Wyoming.

HYLOMERYX Peterson. Type *H. annectens* Peterson.

Peterson, O. A. 1919 A, 67.
Trouessart, E. L. 1905 A, 666.

Hylomeryx annectens Peterson.

Peterson, O. A. 1919 A, 68, pl. xxxvi, figs. 5, 6; text-figs. 8-10.
Upper Eocene (Uinta); Utah.

LIMNENETES Douglass. Type *L. platyceps* Douglass.

Douglass, E. 1901 B, 259.
1905 A, 211.
Loomis, F. B. 1924 A, 369.
1924 B, 7, 14, 15.
Matthew, W. D. 1909 C, 111.
Palmer, T. S. 1904 A, 376, 911.
Peterson, O. A. 1928 B, 165.
Thorpe, M. R. 1925 A, 76.
Trouessart, E. L. 1905 A, 668.
Zittel and Schlosser 1911 A, 482.
1923 A, 572.

Limnenetes platyceps Douglass.

Douglass, E. 1901 B, 242, 260, pl. ix, figs. 5, 6.
1903 A, 149.
1907 A, 822.
Loomis, F. B. 1924 A, 371, pl. lii; pl. liii, figs. 2-7; text-fig. 2.
1924 B, 8, fig. 5.
Matthew, W. D. 1909 C, 104.
Peterson, O. A. 1928 B, 165.
Trouessart, E. L. 1905 A, 668.
Lower Oligocene (White River); Montana.

Limnenetes sp. indet.

Matthew, W. D. 1903 B, 222. Oligocene (Titanotherium beds); Montana.

OREONETES Loomis. Type *Limnenetes anceps* Douglass.

Loomis, F. B. 1924 A, 373.
1924 B, 7, 15.
1925 E, 592.
Peterson, O. A. 1928 B, 166 (Oronetes).

Oreonetes anceps (Douglass).

Douglass, E. 1901 B, 242, 262 (Limnenetes).
1903 A, 149 (Limnenetes).
1907 A, 822 (Limnenetes).
Loomis, F. B. 1924 A, 373, pls. liii, liv; text-fig. 3.
1924 B, 6, fig. 4.
Matthew, W. D. 1909 C, 104 (Limnenetes. This genus?).
Peterson, O. A. 1919 A, 68 (Limnenetes).
Trouessart, E. L. 1905 A, 668 (Limnenetes).
Lower Oligocene (White River); Montana.

SPHENOMERYX Peterson. Type *S. quadricuspis* Peterson.

Peterson, O. A. 1919 A, 71.

Sphenomeryx quadricuspis Peterson.

Peterson, O. A. 1919 A, 71, pl. xxxvii, figs. 15, 16.
Upper Eocene (Uinta); Utah.

NANOMERYX Marsh. Type *N. caudatus* Marsh.

Hay, O. P. 1902 A, 650.
Matthew, W. D. 1909 C, 103.
Palmer, T. S. 1904 A, 447, 927.
Sinclair, W. J. 1914 A, 287.
Trouessart, E. L. 1905 A, 648.
Zittel and Schlosser 1923 A, 569.

Nanomeryx caudatus Marsh.

Hay, O. P. 1902 A, 650.
Matthew, W. D. 1909 C, 98.
Middle Eocene (Bridger?); Wyoming.

MESOMERYX Peterson. Type *M. grangeri* Peterson.

Peterson, O. A. 1919 A, 73.

Mesomeryx grangeri Peterson.

Peterson, O. A. 1919 A, 73, pl. xxxvii, fig. 17.
Upper Eocene (Uinta); Utah.

SARCOLEMUR Cope. Type *Antiacodon furcatus* Cope.

Hay, O. P. 1902 A, 793.
Haug, E. 1911 A, 1528.
Loomis, F. B. 1905 A, 416.
Lydekker, R. 1915 C, 620.
Matthew, W. D. 1909 C, 98, 103.
1909 D, 512.
Osborn, H. F. 1901 D, 623.
1902 C, 189.
1909 D, 38.
Palmer, T. S. 1904 A, 618, 898.
Pia, J. 1916 A, 129.
Schlosser, M. 1921 A, 123, 126, text-fig. 1.
Sinclair, W. J. 1914 A, 287.
Trouessart, E. L. 1904 A, 42.
Weber, M. 1904 A, 763.
Weber and Abel 1928 A, 618.
Zittel and Schlosser 1911 A, 480.
1923 A, 569, 667.

Sarcolemur bicuspis Loomis.

Loomis, F. B. 1907 B, 357 (No description).
Lower Eocene (Wasatch); Wyoming.

Sarcolemur crassus Cope.

Hay, O. P. 1902 A, 793.
Osborn, H. F. 1902 C, 174.
Trouessart, E. L. 1904 A, 42.
Lower Eocene (Wasatch); New Mexico.

Sarcolemur furcatus (Cope).

Cope, E. D. 1872 NN, 2 (Lophiotherium).
1873 E, 608 (Antiacodon).

Hay, O. P. 1902 A, 793 (S. pygmæus, in part).
Matthew, W. D. 1909 C, 98.
Osborn, H. F. 1902 C, 172, 174, 189, fig. 16.
Trouessart, E. L. 1904 A, 42.
Middle Eocene (Bridger); Wyoming.

Sarcolemur pygmæus Cope.

Hay, O. P. 1902 A, 793.
Matthew, W. D. 1909 C, 98.
Osborn, H. F. 1902 C, 172, 189, fig. 17.
Sinclair, W. J. 1914 A, 287, fig. 21.
Trouessart, E. L. 1904 A, 42.
Middle Eocene (Bridger); Wyoming.

MICROSUS Leidy. Type *M. cuspidatus* Leidy.

Hay, O. P. 1902 A, 792.
Haug, E. 1911 A, 1528.
Loomis, F. B. 1905 A, 417 (=Hyopsodus).
Matthew, W. D. 1909 C, 98, 103.
1909 D, 512.
Palmer, T. S. 1904 A, 423, 898.
Sinclair, W. J. 1914 A, 288.
Zittel and Schlosser 1923 A, 569.

Microsus cuspidatus Leidy.

Hay, O. P. 1902 A, 792.
Matthew, W. D. 1909 C, 98.
Merrill, G. P. 1907 A, 48.
Osborn, H. F. 1902 C, 172 (=Hyopsodus paulus).
Sinclair, W. J. 1914 A, 288, fig. 22.
Middle Eocene (Bridger); Wyoming.

Microsus sp. indet.

Gidley, J. W. 1926 E, 41. Lower Eocene (Wasatch); Wyoming.
Sinclair, W. J. 1914 A, 289, figs. 23, 24?. Middle Eocene (Bridger); Wyoming.

DIACODEXIS Cope. Type *Phenacodus laticuneus* Cope.

Cope, E. D. 1882 GG, 1029.
Hay, O. P. 1902 A, 649 (Trigonolestes); 790 (Hyopsodus, in part).
Chardin, T. 1922 A, 83.
Gregory, W. K. 1910 A, 403 (Trigonolestes).
Haug, E. 1911 A, 1528 (Trigonolestes).
Loomis, F. B. 1925 E, 585, 588, 590, figs. 2, 3, 4.
Matthew, W. D. 1905 C, 299 (Trigonolestes).
1909 C, 103 (Trigonolestes).
1909 D, 522 (Trigonolestes).
1915 E, 327.
1915 K, 421, 472.
1917 C, 837.
1918 H, 566.
1921 H, 510.
1924 E, 749.
1928 B, 964, 981, fig. 16.
Osborn, H. F. 1907 G, 171, figs. 152, 199 (Trigonolestes).
1909 D, 38, 48 (Trigonolestes).
1910 B, 127, 547 (Trigonolestes).
1912 G, 236, fig. 3 (Trigonolestes).
Palmer, T. S. 1904 A, 224, 898 (Diacodexis); 691, 927 (Trigonolestes).
Schlosser, M. 1898 B, 371 (Trigonolestes).
1921 A, 123, 126, text-fig. 1.
Scott, W. B. 1913 A, 281, 398 (Trigonolestes).
Sinclair, W. J. 1914 A, 289.
Stehlin, H. G. 1906 A, 669, 673 (Trigonolestes).
1910 A, 1154 (Trigonolestes).
Trouessart, E. L. 1905 A, 647 (Trigonolestes).
Weber, M. 1904 A, 664 (Trigonolestes).
Weber and Abel 1928 A, 618.
Zittel and Schlosser 1911 A, 480 (Trigonolestes).
1923 A, 569, 666 (Trigonolestes).

Diacodexis brachystomus (Cope).

Hay, O. P. 1902 A, 649 (Trigonolestes).
Matthew, W. D. 1909 C, 95 (Trigonolestes).
Sinclair, W. J. 1914 A, 290.
Lower Eocene (Bighorn Valley); Wyoming.

Diacodexis chacensis Cope.

Hay, O. P. 1902 A, 649 (Trigonolestes).
Loomis, F. B. 1907 B, 357 (Trigonolestes).
Matthew, W. D. 1909 C, 95 (Trigonolestes).
Reeside, J. B. 1924 A, 46 (Trigonolestes).
Sinclair, W. J. 1914 A, 290, fig. 25.
Trouessart, E. L. 1905 A, 648 (Trigonolestes).
Zittel and Schlosser 1923 A, 569.
Lower Eocene (Wasatch); Wyoming.

Diacodexis laticuneus Cope.

Hay, O. P. 1902 A, 790 (Hyopsodus).
Loomis, F. B. 1905 A, 421, 424 (Hyopsodus).
Matthew, W. D. 1909 C, 93 (Hyopsodus).
Osborn, H. F. 1902 C, 175, 184, fig. 10 (Hyopsodus?, Diacodexis).
Sinclair, W. J. 1914 A, 290 (This species?).
Trouessart, E. L. 1904 A, 42, 48 (Hyopsodus).
Lower Eocene (Wasatch); Wyoming.

Diacodexis metsiacus (Cope).

Hay, O. P. 1902 A, 649 (Trigonolestes).
Loomis, F. B. 1907 B, 357 (Trigonolestes).
Matthew, W. D. 1909 C, 95 (Trigonolestes).
Sinclair, W. J. 1914 A, 290.
Trouessart, E. L. 1905 A, 648 (Trigonolestes).
Lower Eocene (Wasatch); Wyoming.

Diacodexis nuptus (Cope).

Hay, O. P. 1902 A, 649 (Trigonolestes).
Matthew, W. D. 1909 C, 95 (Trigonolestes).
Stehlin, H. G. 1906 A, 673 (Pantolestes).
1910 A, 1155 (Trigonolestes).
Trouessart, E. L. 1905 A, 648 (Trigonolestes).
Lower Eocene (Wind River); Wyoming, Colorado.

Diacodexis olseni Sinclair.

Sinclair, W. J. 1914 A, 292, fig. 26.
Lower Eocene (Wind River); Wyoming.

Diacodexis robustus Sinclair.

Sinclair, W. J. 1914 A, 293, figs. 27, 28.
Lower Eocene (Wasatch); Wyoming.

Diacodexis secans (Cope).

Hay, O. P. 1902 A, 649 (Trigonolestes).
Matthew, W. D. 1909 C, 95 (Trigonolestes).
Stehlin, H. G. 1906 A, 673 (Pantolestes).
1910 A, 1155 (Trigonolestes).
Trouessart, E. L. 1905 A, 648 (Trigonolestes).
Lower Eocene (Wind River); Wyoming; Colorado.

STENACODON Marsh. Type *S. rarus* Marsh.

Hay, O. P. 1902 A, 794.
Loomis, F. B. 1905 A, 417 (Syn. of Hyopsodus).
Matthew, W. D. 1909 C, 103.
Palmer, T. S. 1904 A, 644, 898.

Stenacodon rarus Marsh.

Hay, O. P. 1902 A, 794.
Matthew, W. D. 1909 C, 98 (This genus?).
1909 D, 302.
Osborn, H. F. 1902 C, 173, 185 (Hyopsodus).
Middle Eocene (Bridger); Wyoming.

ITHYGRAMMODON Osborn, Scott, and Speir. Type *I. cameloides* Osborn, Scott, and Speir.

Hay, O. P. 1902 A, 674.
Howes, G. B. 1902 A, 523.
Matthew, W. D. 1909 C, 103.
Palmer, T. S. 1904 A, 354, 921.
Trouessart, E. L. 1905 A, 684.
Zittel and Schlosser 1923 A, 564.
The systematic position of this genus is uncertain.

Ithygrammodon cameloides Osborn, Scott, and Speir.

Hay, O. P. 1902 A, 674.
Matthew, W. D. 1909 C, 98 (This genus?).
Middle Eocene (Bridger?); Wyoming?.

ANOPLOTHERIIDÆ Leidy.

Leidy, J. 1869 A, 206.
Abel, O. 1919 A, 803.
1920 A, 434, 436, figs. 659, 660.
Arldt, T. 1907 D, 688.
Bronn, H. G. 1838 A, 1292 (Anoplotherium).
Carus, V. 1875 A, 147 (Anoplotherioidea).
Cope, E. D. 1887 B, 378, 382.
Cuvier, G. 1804 E, 370 (Anoplotherium).
1812, Oss. Foss. ed. 1, v, pls. (Anoplotherium).
1822, Oss. Foss., ed. 2, III, pls. (Anoplotherium).
1825 A, 39-259, III, pls. (Anoplotherium).
Depéret, C. 1908 A, 166 (Anoplotheridæ).
Earle, C. 1897 A, 686.
Falconer, H. 1868 A, I, 190 (Anoplotherium).
Flower and Lydekker 1891 A, 293.
Gervais, P. 1852 A, 91, explan. pls. xvi, xxxv (Anoplotherium).
1859 A, 163 ("anoplothèrides").
Haeckel, E. 1868 A, 478 ("anoplotherien").
1873 A, 553, 554 (Anoplotherida).
Hennig, E. 1921 A, 221 (Anoplotherium).
Kowalevsky, W. 1874 A, pl. xxxvii, figs. 2, 11 (Anoplotherium).
1877 A, 152 (Anoplotherium).
Lazier and Parieu 1838 A, 335 (Anoplotherium).
Loomis, F. B. 1925 E, 584, 588, 590, figs. 2, 4.
Lydekker, R. 1885 C, 183.
Major, C. J. F. 1877 A, 13, 14, 15 (Anoplotherium).
Matthew, W. D. 1928 B, 981, fig. 16 ("anoplotheres").
Osborn, H. F. 1910 B, 548.
Owen, R. 1845 B, 523, pl. cxxxv.
1860 E, 332 (Anoplotherium).
1866 B, 266, 286 (Anoplotherium).
1868 A, 340, 375, 390 (Anoplotherium).
Palmer, R. W. 1913 A, 878 (Anoplotherium).
Peterson, O. A. 1919 A, 76 (Anoplotheriidæ); 79 (Anoplotheriinæ; Diplobunopsinæ).
Pomel, A. 1851 A, 16-17 (Anoplotherium).
Reynolds, S. H. 1897 A, 428 (Anoplotherium).
Roger, O. 1896 A, 219.
Rütimeyer, L. 1862 C, 70 (Anoplotherium).
Sauvage, H. E. 1882 A, 106 (Anoplotherium).
Schlosser, M. 1883 B, 141, pl. vi ("anoplotherien").
1883 C, 153, pls. vi, vii ("anoplotherien").
1921 A, 123, 124 ("anoplotheriiden").
Terra, P. 1911 A, 323.
Trouessart, E. L. 1905 A, 677 (Anoplotheridæ).
Weber and Abel 1928 A, 543.
Zittel, K. A. 1893 B, 366.
Zittel and Schlosser 1911 A, 477.
1923 A, 566, 667.

DIPLOBUNOPS Peterson. Type *D. matthewi* Peterson.

Peterson, O. A. 1919 A, 76.

Diplobunops matthewi Peterson.

Peterson, O. A. 1919 A, 76, pl. xxxviii.
Upper Eocene (Uinta); Utah.

Superfamily ANTHRACOTHERIOIDÆ, new form.

Hay, O. P. 1902 A, 651 (Anthracotherioidea).
Cope, E. D. 1891 N, 87 (Anthracotherioidea).
Stehlin, H. G. 1908 A, 798 ("anthracotherien").
Stromer, E. 1912 A, 197 (Bunoselenodontia, in part).
Weber, M. 1904 A, 690 (Anthracotherioidea).
Weber and Abel 1928 A, 535 (Bunoselenodontia).
Zittel and Schlosser 1911 A, 476 (Bunoselenodontia, part).
1923 A, 564 (Bunoselenodontia, part).

ANTHRACOTHERIIDÆ Leidy.

Leidy, J. 1869 A, 202 (Anthracotheridæ).
Hay, O. P. 1902 A, 651.
Abel, O. 1913 B, 729, 740.
1914 A, 160.
1919 A, 801.
1920 A, 435, 436 ("anthracotheriiden").
Arldt, T. 1907 D, 638.
1912 A, 700.
Beddard, F. E. 1902 A, 328 (Anthracotheridæ).
Behlen, H. 1907 A, 277 ("anthracotheriden").
Case, E. C. 1899 B, 171.
Cope, E. D. 1880 U, 152 ("hypotamides").
Deiner, C. 1909 A, 39.
Depéret, C. 1905 A, 1521 ("anthracothéridés").
1905 C, 704 ("anthracothéridés").
1908 B, 158 ("anthracothéridés").
1912 A, 708 ("anthracothéridés").
Gegenbaur, C. 1880 A, 591 (Hyopotamidæ).
Gervais, P. 1859 A, 189 ("hypotamiens").
Hoernes, R. 1886 A, 673 (Hyopotamidæ).
Kampfen, P. N. 1905 A, 609.
Loomis, F. B. 1925 E, 584, 588, 590, figs. 2, 4.
Matthew, W. D. 1909 C, 104, 106, 109, 111.
1915 A, 252, fig. 26 ("anthracotheres").
1928 B, 981, fig. 16.
O'Harra, C. C. 1910 A, 106, 145.
1920 A, 122.
Osborn, H. F. 1905 I, 103.
1909 D, 121.
1910 B, 606.
Pilgrim, G. E. 1912 A, 40.
Schlosser, M. 1911 A, 163 ("anthracotheriiden").
Scott, W. B. 1913 A, 361, 370, 675.
Stehlin, H. G. 1910 A, 1143 (Anthracotheridæ).
Stromer, E. 1916 A, 402.
Terra, P. 1911 A, 317.
Trouessart, E. L. 1905 A, 649.
Wallace, A. R. 1876 A, I, 137 (Anthracotheridæ).
Weber and Abel 1928 A, 542.
Winge, H. 1906 A, 70, 127.
Woodward, A. S. 1923 C, 37.
Zittel and Schlosser 1911 A, 476.
1923 A, 564, 602.

ANTHRACOTHERIINÆ Zittel.

Zittel, K. A. 1893 B, 327 (Anthracotherinæ).
Hay, O. P. 1902 A, 651.
Palacký, J. 1903 B, 310 ("anthracotherinen").
Trouessart, E. L. 1905 A, 649.

ANTHRACOTHERIUM Cuvier. Type *A. magnum* Cuvier.

Hay, O. P. 1902 A, 651.
Abel, O. 1912 D, 605.
1912 F, 644.
1913 B, 740, fig. 53.
1914 A, 160, fig. 112.
1919 A, 803, figs. 604, 605.
Beddard, F. E. 1902 A, 328.
Boettger, O. 1877 A, 163, 7 figs.
Bronn, H. G. 1848 A, 83.
1849 A, 705.
Depéret, C. 1906 A, 618.
1907 B.
1908 B, 158.
Filhol, H. 1877 A, 174.
Gervais, P. 1852 A, 95, explan. pl. xxxi.
1859 A, 189, pls. xxxi, xxxiii.
Giebel, C. G. 1855 A, 74.
Haug, E. 1911 A, 1528, 1529.
Heilprin, A. 1887 A, 375.
Hennig, E. 1921 A, 221.
Hoernes, R. 1886 A, 673.
Lambe, L. M. 1908 A, 25.
Loomis, F. B. 1925 E, 590, fig. 4.
Lydekker, R. 1884 A, 148, pls. xxiii-xxv.
Major, C. J. F. 1877 A, 16.
1880 A, 19.
Matthew, W. D. 1906 B, 365.
1909 C, 111.
1915 A, 253.
1915 K, 420.
Moreau, L. 1914 A, 86.
Osborn, H. F. 1907 G, 172, fig. 155.
1910 B, 606.
Owen, R. 1845 B, 567, pl. cxxxv, fig. 10.
Palmer, T. S. 1904 A, 108, 913.
Pilgrim, G. E. 1912 A, 40.
Schlosser, M. 1883 B, 162.
1903 I, 209.
Scott, W. B. 1913 A, 259, 371, 675.
Stromer, E. 1903 C, 66.
Terra, P. 1911 A, 317.
Thorpe, M. R. 1923 E, 241.
Trouessart, E. L. 1905 A, 649.
Troxell, E. L. 1921 B, 326.
Weber, M. 1904 A, 690.
Weber and Abel 1928 A, xx, 539, fig. 363.
Winge, H. 1906 A, 131.
Woodward, A. S. 1923 C, 37.
Zittel and Schlosser 1911 A, 476.
1923 A, 565, 671, fig. 702.

Anthracotherium karense Osborn and Wortman.

Hay, O. P. 1902 A, 652.
Abel, O. 1920 A, 435, fig. 658.
Cook, H. J. 1912 D, 39.
Depéret, C. 1912 A, 708.
Matthew, W. D. 1909 C, 109.
O'Harra, C. C. 1920 A, 154.
Troxell, E. L. 1921 B, 328 (To Octacodon).

Trouessart, E. L. 1905 A, 650.
Upper Oligocene (Brule); Nebraska.

Anthracotherium pygmæum Lambe.

Lambe, L. M. 1908 A, 10, 25, pl. vi, fig. 6 (This genus?).
Oligocene (Cypress Hills); Saskatchewan.

Anthracotherium sp. indet.

Matthew, W. D. 1909 C, 104. Lower Oligocene (Chadron); South Dakota, etc.

HEPTACODON Marsh. Type *H. curtus* Marsh.

Marsh, O. C. 1894 C, 409.
Hay, O. P. 1902 A, 651 (Anthracotherium, part).
Matthew, W. D. 1915 K, 420.
Troxell, E. L. 1921 B, 327.
Zittel and Schlosser 1911 A, 477.
1923 A, 565.

Heptacodon curtus Marsh.

Hay, O. P. 1902 A, 652 (Anthracotherium).
Cook, H. J. 1912 D, 37 (Anthracotherium).
Depéret, C. 1912 A, 708 (Anthracotherium).
Matthew, W. D. 1901 B, 369 (Anthracotherium).
1909 C, 106 (Anthracotherium).
Trouessart, E. L. 1905 A, 650 (Anthracotherium).
Troxell, E. L. 1921 B, 327, fig. 1.
Upper Oligocene (Protoceras beds); South Dakota.

ARRETOTHERIUM Douglass. Type *A. acridens* Douglass.

Douglass, E. 1901 B, 269, 276.
Matthew, W. D. 1909 A, 3, 4.
1909 C, 111.
1915 A, 253.
Osborn, H. F. 1910 B, 189, 548.
Palmer, T. S. 1904 A, 122, 911.
Zittel and Schlosser 1911 A, 477.
1923 A, 566.

Arretotherium acridens Douglass.

Douglass, E. 1901 B, 243, 269, pl. ix, figs. 1-3.
Matthew, W. D. 1909 C, 109.
Trouessart, E. L. 1905 A, 652.
Oligocene (Upper); Montana.

OCTACODON Marsh. Type *O. valens* Marsh.

Hay, O. P. 1902 A, 652.
Palmer, T. S. 1904 A, 469, 914.
Troxell, E. L. 1921 B, 328.
Zittel and Schlosser 1911 A, 477.
1923 A, 565.

Octacodon gibbiceps Marsh.

Hay, O. P. 1902 A, 652 (Anthracotherium).
Troxell, E. L. 1921 B, 329, fig. 3.
Upper Oligocene (Protoceras beds); South Dakota.

Octacodon valens Marsh.

Hay, O. P. 1902 A, 652.
Troxell, E. L. 1921 B, 328, fig. 2.
Upper Oligocene (Protoceras beds); South Dakota.

ELOMERYX Marsh. Type *Heptacodon armatus* Marsh.

Hay, O. P. 1902 A, 652.
Matthew, W. D. 1909 A, 6 (Syn.? of Ancodon).
Palacký, J. 1903 B, 312.
Palmer, T. S. 1904 A, 257, 914.
Troxell, E. L. 1921 B, 331.
Zittel and Schlosser 1911 A, 477.
1923 A, 566.

Elomeryx armatus Marsh.

Hay, O. P. 1902 A, 652.
Matthew, W. D. 1909 A, 6 (Heptacodon syn.? of Ancodon brachyrhynchus).
Troxell, E. L. 1921 B, 331, fig. 4.
Upper Oligocene (Protoceras beds); South Dakota.

Elomeryx armatus angustus Troxell.

Troxell, E. L. 1921 B, 334, fig. 5.
Upper Oligocene (Protoceras beds); South Dakota.

Elomeryx mitis Marsh.

Hay, O. P. 1902 A, 652.
Matthew, W. D. 1909 A, 7 (=? Ancodon brachyrhynchus).
Trouessart, E. L. 1905 A, 650.
Troxell, E. L. 1921 B, 334.
Upper Oligocene (White River); South Dakota.

BOTHRIODON Aymard. Type *B. platorhynchus* Aymard.

Hay, O. P. 1902 A, 652 (Ancodon).
Abel, O. 1912 F, 644 (Hyopotamus).
Andrews, C. W. 1906 A, 178 (Ancodon).
Beddard, F. E. 1902 A, 329 (Ancodus).
Bush, L. P. 1903 A, 98.
Dall and Harris 1892 A, 289 (Hyopotamus).
Douglass, E. 1901 B, 275 (Hyopotamus).
Gaudry, A. 1875 D, 1282 (Hyopotamus).
1896 A, 87, fig. 60 (Hyopotamus).
Gervais, P. 1852 A, 95, explan., pl. xxxi.
1859 A, 193 (Bothriodon); 191 (Hyopotamus).

Gregory, W. K. 1910 A, 400, 405 (Ancodus).
Haug, E. 1911 A, 1528, 1529 (Hyopotamus).
Heilprin, A. 1887 A, 375 (Hyopotamus).
Huxley, T. H. 1870 F, 537 (Hyopotamus).
Lambe, L. M. 1905 D, 370 A (Hyopotamus).
Loomis, F. B. 1925 E, 585, figs. 2, 3 (Ancodus).
Major, C. J. F. 1877 A (Hyopotamus).
 1880 A, 17 (Hyopotamus).
Matthew, W. D. 1909 A, 1, 6 (Ancodon).
 1909 C, 111 (Hyopotamus).
 1912 A, 158 (Ancodon).
 1915 A, 253 (Ancodon).
 1915 K, 420 (Ancodon).
 1917 A, 573 (Ancodon).
 1924 E, 748 (Ancodon).
 1928 B, 964 (Ancodus).
Osborn, H. F. 1910 B, 606 (Ancodus).
Palacký, J. 1903 B, 312 (Hyopotamus).
Palmer, T. S. 1904 A, 140, 913.
Pictet, F. J. 1853 A, 330.
Pilgrim, G. E. 1912 A, 67 (Ancodus).
Schlosser, M. 1898 H, 324 (Ancodus).
 1899 H, 547 (Ancodus).
 1911 A, 163 (Ancodus).
Schmidt, O. 1886 A, 170, fig. 25 (Hyopotamus).
Scott, W. B. 1913 A, 252, fig. (133); 258, 370.
Stromer, E. 1903 C, 65 (Ancodus).
Trouessart, E. L. 1905 A, 650.
Troxell, E. L. 1921 B, 325.
Weber, M. 1904 A, 690 (Ancodus, Hyopotamus).
Zittel and Schlosser 1911 A, 477 (Ancodus).
 1923 A, 565 (Syn. of Ancodon); 565, 670, 671, figs. 703, 704 (Ancodus).

Bothriodon brachyrhynchus (Osborn and Wortman).

Hay, O. P. 1902 A, 653 (Ancodon).
Abel, O. 1914 A, 164, fig. 116 (Brachyodus).
Beddard, F. E. 1902 A, 329 (Ancodon).
Cook, H. J. 1912 D, 39 (Ancodon).
Depéret, C. 1912 A, 708 (Hyopotamus).
Gregory, W. K. 1910 A, 405, fig. 26 (Ancodus).
 1920 A, 190, fig. 162 (Ancodon).
Lambe, L. M. 1905 D, 367 (Hyopotamus. This species?)
 1908 A, 10, 24, pl. ii, figs. 1-9 (Ancodon).
Matthew, W. D. 1901 B, 370 (Ancodon).
 1909 A, 1, 3, 5 (Ancodon).
 1909 C, 109 (Hyopotamus).
O'Harra, C. C. 1910 A, 107, fig. 15 (Hyopotamus).
 1920 A, 122, 154, figs. 60, 61 (Hyopotamus).
Schlosser, M. 1898 H, 324 (Ancodus).
 1899 H, 547 (Ancodus).
Scott, W. B. 1913 A, 371, fig. 196.
Weber and Abel 1928 A, 540, 542, fig. 362 (Brachyodus).
Woodward, A. S. 1923 C, 38, fig. 21 (Ancodus).
 Upper Oligocene (Brule); South Dakota, Nebraska?, North Dakota?.

Bothriodon leptodus (Matthew).

Matthew, W. D. 1909 A, 1, 5 (Ancodon).
O'Harra, C. C. 1920 A, 157 [Ancodon (Bothodon?)]
 Lower Oligocene (Chadron); South Dakota.

ÆPINACODON Troxell. Type *Hyopotamus deflectus* Marsh.

Troxell, E. L. 1921 B, 334.

Æpinacodon americanus (Leidy).

Hay, O. P. 1902 A, 652 (Ancodon).
Cook, H. J. 1912 D, 35 (Ancodon).
Depéret, C. 1908 B, 161 (Hyopotamus).
 1912 A, 708 (Hyopotamus).
Major, C. J. F. 1880 A, 19 (Hyopotamus).
Matthew, W. D. 1901 B, 369 (Hyopotamus).
 1909 A, 1, 3, 5, 6 (Ancodon americanus); 6 (Hyopotamus deflectus).
 1909 C, 104 (Hyopotamus).
O'Harra, C. C. 1910 A, 107 (Hyopotamus).
 1920 A, 150 (Hyopotamus).
Osborn, H. F. 1909 D, 127 (Hyopotamus).
Schlosser, M. 1899 H, 547 (Ancodus).
Trouessart, E. L. 1905 A, 651 (Bothriodon).
Troxell, E. L. 1921 B, 336 (Æpinacodon).
 Lower Oligocene (Chadron); South Dakota, Nebraska.

Æpinacodon deflectus (Marsh).

Marsh, O. C. 1890 D, 524 (Hyopotamus).
Hay, O. P. 1902 A, 653 (Ancodon americanus, in part).
Troxell, E. L. 1921 B, 337, fig. 7.
 Lower Oligocene (Chadron); South Dakota.

Æpinacodon rostratus (Scott).

Hay, O. P. 1902 A, 653 (Ancodon).
Cook, H. J. 1912 D, 37 (Ancodon).
Matthew, W. D. 1909 A, 1, 3, 5 (Ancodon).
 1909 C, 106 (Hyopotamus).
O'Harra, C. C. 1920 A, 152 (Hyopotamus).
Trouessart, E. L. 1905 A, 651 (Bothriodon).
Troxell, E. L. 1921 B, 337 (Ancodon).
 Upper Oligocene (Brule); South Dakota.

HELOHYIDÆ Marsh.

Hay, O. P. 1902 A, 650.
Matthew, W. D. 1909 D, 302.
Matthew, W. D. 1924 C, 176 (Chœropotamidæ).
Matthew and Granger 1925 D, 7.

HELOHYUS Marsh. Type *H. plicodon* Marsh.

Hay, O. P. 1902 A, 650.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 103.
 1915 A, 242.
 1924 C, 176.
Matthew, W. D. 1924 E, 748.
 1928 B, 981, fig. 16.
Matthew and Granger 1925 D, 7.
Palmer, T. S. 1904 A, 315, 926.
Pearson, H. S. 1923 A, 63, 73, fig. 1.

Schlosser, M. 1901 D, 462.
Scott, W. B. 1913 A, 273, 365.
Sinclair, W. J. 1914 A, 279, 283, fig. 18 (This genus?).
Stehlin, H. G. 1906 A, 672.
1910 A, 1094, 1154.
Trouessart, E. L. 1905 A, 648.
Weber and Abel 1928 A, 542, 623.
Zittel and Schlosser 1923 A, 564, 667.

Helohyus lentus Marsh.

Hay, O. P. 1902 A, 650.
Matthew, W. D. 1909 C, 98.
Pearson, H. S. 1923 A, 76, 93, fig. 16.
Sinclair, W. J. 1914 A, 283, fig. 17.
Stehlin, H. G. 1906 A, 672.
Middle Eocene (Bridger); Wyoming.

Helohyus milleri Sinclair.

Sinclair, W. J. 1914 A, 280, fig. 14.
Pearson, H. S. 1923 A, 74, fig. 15.
Middle Eocene (Bridger); Wyoming.

Helohyus plicodon Marsh.

Hay, O. P. 1902 A, 650.
Matthew, W. D. 1909 C, 98.
Pearson, H. S. 1923 A, 74.
Trouessart, E. L. 1905 A, 648.
Sinclair, W. J. 1914 A, 281, fig. 15.
Stehlin, H. G. 1906 A, 672.
Middle Eocene (Bridger); Wyoming.

Helohyus validus Marsh.

Hay, O. P. 1902 A, 650.
Matthew, W. D. 1909 C, 98.
Pearson, H. S. 1923 A, 93, fig. 16.
Sinclair, W. J. 1914 A, 283, fig. 16.
Stehlin, H. G. 1906 A, 672.
1910 A, 1154.
Middle Eocene (Bridger); Wyoming.

Helohyus sp. indet.

Matthew, W. D. 1909 C, 98. Middle Eocene (Bridger); Wyoming.

Superfamily SUOIDÆ, new form.

Hay, O. P. 1902 A, 653 (Suoidea).
Abel, O. 1914 A, 295 (Neobunodontia).
Cope, E. D. 1891 N, 87 (Suoidea).
Hay, O. P. 1912 D, 595 (Suoidea).
1914 A, 211 (Suoidea).
Matthew, W. D. 1924 C, 176 (Suina).
Osborn, H. F. 1909 D, 59-61 (Suoidea).
1910 B, 548 (Suina).
Terra, P. 1911 A, 319 (Suidæ).
Weber, M. 1904 A, 645 (Suoidea).
Weber and Burlet 1927 A, xv (Neobunodontia).
Winge, H. 1906 A, 70, 143 (Suidæ).
Woodward, A. S. 1923 C, 34 (Suina).
Zittel and Schlosser 1911 A, 472 (Bunodontia).
1923 A, 560 (Bunodontia).

ACHÆNODONTIDÆ Matthew.

Matthew, W. D. 1909 C, 95, 99, 103.
Hay, O. P. 1902 A, 653 (Achænodontinæ).
Arldt, T. 1907 D, 635 (Achænodontinæ).
1912 A, 700 (Achænodontinæ).
Matthew, W. D. 1901 B, 371 (Elotheriidæ).
1915 K, 460 ("entelodonts").
Matthew and Granger 1925 D, 6.
Osborn, H. F. 1909 D, 57 (Achænodontinæ).
1910 B, 127, 156, 549 (Achænodontinæ).
Palacký, J. 1903 B, 306, 307 ("achänodontinen").
Peterson, O. A. 1909 A, 43 (Entelodontidæ).
1919 A, 79.
Repelin, J. 1918 A, 397.
Roman, F. 1912 A, 77 ("achænodontidés").
Trouessart, E. L. 1905 A, 652 (Achænodontinæ).
Weber, M. 1904 A, 653 (Elotheriidæ).
Weber and Abel 1928 A, 623.
Winge, H. 1906 A, 70 (Entelodontini).

ACHÆNODON Cope. Type *A. insolens* Cope.

Hay, O. P. 1902 A, 654 (Achænodon, Protelotherium).
Arldt, T. 1907 D, 259.
Baird, S. F. 1876 A, 334.
Barbour, E. H. 1925 B, 32.
Case, E. C. 1899 B, 172.
Cope, E. D. 1880 U, 154.
Granger, W. 1909 A, 22.
Gregory, W. K. 1910 A, 403.
Heilprin, A. 1887 A, 374.
Matthew, W. D. 1907 D, 7.
1909 C, 103.
1924 C, 176.
1928 B, 981, fig. 16.
Osborn, H. F. 1909 D, 53, 54.
1910 B, 156, 167, 217, 218, 549.
1912 G, 241, fig. 6.
Palmer, T. S. 1904 A, 74, 927 (Achænodon); 578, 929 (Protelotherium).
Peterson, O. A. 1919 A, 80 (Protelotherium, Achænodon).
Schlosser, M. 1899 I, 349.
1902 J, 257.
1921 A, 120 (Achænodon); 121 (Protelotherium).
Scott, W. B. 1913 A, 273, 369, 675.
Trouessart, E. L. 1905 A, 652 (Achænodon); 653 (Protelotherium).
Wallace, A. R. 1876 A, I, 138.
Weber, M. 1904 A, 654.
Weber and Abel 1928 A, 622.
Zittel and Schlosser 1911 A, 475 (Achænodon, Protelotherium).
1923 A, 523, 562, 667, 668 (Achænodon); 562 (Protelotherium).

Achænodon insolens Cope.

Hay, O. P. 1902 A, 654.
Baird, S. F. 1876 A, 334.
Matthew, W. D. 1909 C, 121.
Peterson, O. A. 1919 A, 79, fig. 11.
Upper Eocene (Washakie?); Wyoming.

Achænodon robustus Osborn.

Hay, O. P. 1902 A, 654.
Matthew, W. D. 1909 C, 121.
Scott, W. B. 1913 A, 369, fig. 195.
Weber and Abel 1928 A, 621, fig. 419.
Upper Eocene (Washakie?); Wyoming.

Achænodon uintensis (Osborn).

Hay, O. P. 1902 A, 654 (Protelotherium).
Beddard, F. E. 1902 A, 279 (Elotherium).
Matthew, W. D. 1909 C, 99.
Peterson, O. A. 1919 A, 80 (A. uintense).
Zittel and Schlosser 1923 A, 562 (Protelotherium).
Upper Eocene (Uinta); Wyoming.

Achænodon sp. indet.

Matthew, W. D. 1909 C, 99. Upper Eocene (Uinta); Wyoming.

Parahyus Marsh. Type *P. vagus* Marsh.

Hay, O. P. 1902 A, 654.
Barbour, E. H. 1925 B, 32.
Haug, E. 1911 A, 1528.
Heilprin, A. 1889 A, 374.
Matthew, W. D. 1909 C, 103.
Palmer, T. S. 1904 A, 513, 929.
Peterson, O. A. 1919 A, 79.
Scott, W. B. 1913 A, 281.
Sinclair, W. J. 1914 A, 267.
Stehlin, H. G. 1910 A, 1154.
Weber, M. 1904 A, 654.
Zittel and Schlosser 1911 A, 475 (Syn.? of Achænodon).
1923 A, 562 (Syn.? of Achænodon).

Parahyus aberrans Marsh.

Hay, O. P. 1902 A, 654.
Matthew, W. D. 1909 C, 95.
Peterson, O. A. 1919 A, 82.
Sinclair, W. J. 1914 A, 267.
Lower Eocene (Wasatch); Wyoming.

Parahyus vagus Marsh.

Hay, O. P. 1902 A, 654.
Matthew, W. D. 1909 C, 95.
Peterson, O. A. 1919 A, 79, fig. 12.
Sinclair, W. J. 1914 A, 267.
Lower Eocene (Wasatch); Wyoming.

ELOTHERIIDÆ Alston.

Alston, E. R. 1878, Zool. Record for 1876, Mamm., 18.
Hay, O. P. 1902 A, 653 (Suidæ, in part).
Abel, O. 1913 B, 739 (Elotheriidæ); 729, 738 (Hypoconifera).
1914 A, 121, 128, 154 (Elotheriidæ); 121, 128, 154 (Hypoconifera).
1920 A, 434 ("elotheriiden").
1926 B, 27, 78, 346 ("entelodonten").
Gregory, W. K. 1920 A, 191 (Entelodontinæ).
Lydekker, R. 1883 A, 146 (Entelodontidæ).
Marinelli, W. 1924 A, 24 ("entelodontiden").
Matthew, W. D. 1907 A, 216.
1909 C, 104, 106, 108, 111, 113, 119.
1921 D, 214 (Entelodontidæ).
1928 B, 968, 980 ("entelodonts").
Matthew and Granger 1925 D, 7 (Entelodontidæ).
O'Harra, C. C. 1910 A, 103, 146.
1920 A, 118.
Osborn, H. F. 1909 D, 61, 63, 125 (Entelodontinæ).
1910 B, 614 (Entelodontidæ).
Peterson, O. A. 1909 A, 47, 144 (Entelodontidæ).
Schlosser, M. 1921 A, 120.
Scott, W. B. 1913 A, 250, 281, 361, 366, 445 (Entelodontidæ).
Sinclair, W. J. 1921 C, 467 (Entelodontidæ).
1922 A, 654 ("entelodonts").
Stehlin, H. G. 1910 A, 1135 (Hypoconifera).
Troxell, E. L. 1920 B, 254 (Entelodontidæ).
Weber and Abel 1928 A, 426, 618 (Elotheriidæ, Entelodontidæ).
Zittel and Schlosser 1911 A, 474.
1923 A, 562, 602.

Elotherium Pomel. Type *E. magnum* (Aymard).

Hay, O. P. 1902 A, 654.
Matthew, W. D. 1928 B, 981, fig. 16 (Enteledon).
Schlosser, M. 1921 A, 120.
Zittel and Schlosser 1911 A, 475.
1923 A, 425, 562, 670, fig. 527.

For additional citations see under *Archæotherium*. The two species recorded below are represented by materials hardly identifiable in other specimens.

Elotherium imperator Leidy.

Hay, O. P. 1902 A, 655.
Condon, T. 1902 A, 119, pl. xvi ("Entelodon," This species?).
Cope and Matthew 1915 A, pl. cix *a*, fig. 2 (Elotherium, Entelodon).
Matthew, W. D. 1909 C, 108.
Merriam and Sinclair 1907 A, 186.
O'Harra, C. C. 1910 A, 105, pl. xlii.
1920 A, pl. xxxviii.
Peterson, O. A. 1909 A, 69 (This species?).
Repelin, J. 1918 A, 398 (Enteledon).
Trouessart, E. L. 1905 A, 653 (Entelodon).
Troxell, E. L. 1920 B, 250 (Archæotherium).
Upper Oligocene (John Day); Oregon.

Elotherium superbum Leidy.

Hay, O. P. 1902 A, 656.
Cope, E. D. 1880 V, 62 ("Elotherium").

Hay, O. P. 1927 D, 228.
Lindgren, W. 1911 A, 52.
Peterson, O. A. 1909 A, 69 (Elotherium?).
Troxell, E. L. 1920 B, 250 (Archæotherium).
Whitney, J. D. 1879 B, 283 ("elotherium").
Miocene?; California.

Elotherium sp. indet.

Figgins, J. D. 1925 A, 19. Oligocene; Colorado.

SCAPTOHYUS Sinclair. Type *S. altidens* Sinclair.

Sinclair, W. J. 1921 C, 480.

Scaptohyus altidens Sinclair.

Sinclair, W. J. 1921 C, 480, figs. 11-17.
Upper Oligocene (Upper Brule); South Dakota.

ARCHÆOTHERIUM Leidy. Type *A. mortoni* Leidy.

Leidy, J. 1850 A, 90.
Hay, O. P. 1902 A, 654 (Elotherium).
Abel, O. 1912 D, 605 (Entelodon).
1912 F, 239, 644 (Entelodon).
1913 B, 739 (Elotherium).
1914 A, 154, fig. 105 (Elotherium).
Arldt, T. 1907 D, 259 (Elotherium).
Baird, S. F. 1876 A, 334 (Elotherium).
Barbour, E. H. 1906 C, 781 (Elotherium).
1912 A, 50 (Elotherium).
1925 B, 32 (Entelodon).
Beddard, F. E. 1902 A, 279 (Elotherium).
Bush, L. P. 1903 A, 97 (Entelodon).
Case, E. C. 1899 B, 172 (Elotherium).
Cope, E. D. 1880 U, 156 (Elotherium).
Dall and Harris 1892 A, 222 (Elotherium).
Depéret, C. 1908 A, 167 (Entelodon).
1912 A, 707 (Entelodon).
Gaudry, A. 1875 D, 1282 (Entelodon).
Gervais, P. 1859 A, 194 (Entelodon).
Giebel, C. G. 1855 A, 73, pl. xxx, fig. 1 (Entelodon).
Greene, F. V. 1853 A, 292.
Gregory, W. K. 1920 B, 190, fig. 161 (Entelodon).
Haug, E. 1911 A, 1528, 1529, 1705 (Elotherium).
Jaekel, O. 1909 C, 707 (Elotherium).
Kampfen, P. N. 1905 A, 586 (Elotherium).
Lambe, L. M. 1904 C, 29 (Elotherium).
Marinelli, W. 1924 A, 24.
Matthew, W. D. 1901 B, 369, 370 (Elotherium).
1906 B, 365 (Elotherium).
1907 A, 172, 176 (Elotherium).
1909 C, 108, 119 (Elotherium).
1915 A, 253 (Entelodon).
1915 K, 420 (Entelodon).
1924 E, 748 (Entelodon).
Matthew and Granger 1923 A, 3.
Merriam, J. C. 1915 G, 99 (Elotherium).
Merriam and Sinclair 1903 A, 95 (Elotherium).
1907 A, 188 (Elotherium).
Moodie, R. L. 1923 B, 126.
O'Harra, C. C. 1910 A, 104 (Elotherium).
Osborn, H. F. 1904 F, 41 (Elotherium).
1909 D, 125 (Elotherium).
1910 B, 217, 218 (Archæotherium); 230, 549, fig. 76 (Entelodon).
1925 D, 532.
Owen, R. 1866 B, 286 (Entelodon).
Peterson, O. A. 1909 A, 47, 144.
Repelin, J. 1918 A, 397 (Elotherium).
Schlosser, M. 1899 I, 349 (Entelodon).
1902 G, 136 (Elotherium).
Scott, W. B. 1913 A, 676, figs. 133, 194.
Sinclair, W. J. 1921 C, 467.
1924 A, 124.
Stehlin, H. G. 1906 A, 673 (Elotherium).
Thorpe, M. R. 1923 E, 241 (Elotherium).
Trouessart, E. L. 1905 A, 653 (Entelodon).
Troxell, E. L. 1920 B, 361.
Turner, H. W. 1895 A, 375 (Elotherium).
Weber, M. 1904 A, 653 (Elotherium, Entelodon).
Zittel and Schlosser 1911 A, 475 (Elotherium).
1923 A, 562, 565, 670, fig. 699 (Syn. of Elotherium).

Archæotherium clavum clavum (Marsh).

Hay, O. P. 1902 A, 655 (Elotherium).
Marinelli, W. 1924 A, 26, fig. 1 (A. clavus c.).
Peterson, O. A. 1909 A, 49, fig. 7 (A. mortoni clavum).
Sinclair, W. J. 1921 C, 476 (syn. of A. mortoni).
1922 B, 61 (syn. of A. mortoni).
Trouessart, E. L. 1905 A, 653 (Entelodon).
Troxell, E. L. 1920 B, 251, 361, figs. 1-3 (A. clavus c.).
Weber and Abel 1928 A, 620, fig. 417 (A. clavus).
Lower Oligocene (Chadron); South Dakota.

Archæotherium clavum darbyi Troxell.

Troxell, E. L. 1920 B, 367, figs. 4-8 (A. clavus d.).
Marinelli, W. 1924 A, 26, fig. 2 (A. clavus d.).
Sinclair, W. J. 1921 C, 476 (syn. of A. mortoni).
1922 B, 61 (syn. of A. mortoni).
Oligocene (Brule); Nebraska.

Archæotherium coarctatum (Cope).

Hay, O. P. 1902 A, 655 (Elotherium).
Lambe, L. M. 1904 C, 29, 38, 51 (Elotherium).
1905 D, 367 A (Elotherium).
1908 A, 10, 26, pl. ii, figs. 10, 15; pl. iii, figs. 1-6 (Elotherium).
Matthew, W. D. 1909 C, 104 (Elotherium).
Peterson, O. A. 1909 A, 55, fig. 11.
Sinclair, W. J. 1922 B, 53, 56.
Troxell, E. L. 1920 B, 349 (Enteledon).
Lower Oligocene (Chadron); Assiniboia.

Archæotherium crassum (Marsh).

Hay, O. P. 1902 A, 655 (Elotherium).
Abel, O. 1913 B, 739, fig. 50 (Elotherium).
Cook, H. J. 1912 D, 35, 37 (Entelodon); 39 (Entelodon. This species?).
Heilmann, G. 1914 A, 53, fig. 143.
Matthew, W. D. 1901 B, 356, 357 (Elotherium. This species?).

Matthew, W. D. 1909 C, 104, 106 (Elotherium); 108 (Elotherium. This species?).
O'Harra, C. C. 1920 A, 150 (Elotherium).
Peterson, O. A. 1909 A, 51, figs. 8, 71.
Repelin, J. 1918 A, 398 (Entelodon).
Sinclair, W. J. 1921 C, 473, fig. 9 (This species?).
1924 A, 102, 126 (This species?).
Trouessart, E. L. 1905 A, 653 (Entelodon).
Troxell, E. L. 1920 B, 250, 375, fig. 9.
Zittel and Schlosser 1911 A, 475, fig. 660 (Elotherium).
Oligocene (Chadron); Colorado: (Brule); Nebraska.

Archæotherium ingens (Leidy).

Hay, O. P. 1902 A, 655 (Elotherium).
Barbour, E. H. 1912 A, 50, pl. i (Elotherium).
1925 B, 31 (Elotherium).
Cook, H. J. 1912 D, 3, 7, 39 (Entelodon).
Lee, Stone, Gale 1915 A, 40, pl. vii (Archeotherium).
Lydekker, R. 1910 F, 661, fig. 3.
O'Harra, C. C. 1910 A, 105, pl. xli (Elotherium).
1920 A, 119, 152, pls. xxvii, xxxvii; text-fig. 57 (Elotherium, Archæotherium).
Scott, W. B. 1913 A, 260 (fig. 137); 367 (fig. 192).
Sinclair 1921 C, 469 (Elotherium); 470, 493, fig. 4 (Archæotherium).
Trouessart, E. L. 1905 A, 653 (Entelodon).
Troxell, E. L. 1920 B, 250.
Weber and Abel 1928 A, 620, fig. 416.
Lower Oligocene (Chadron?); Nebraska: (Brule); Nebraska.

Archæotherium marshi Troxell.

Troxell, E. L. 1920 B, 252, 361, 379, pl. iii, fig. A; text-figs. 10-12.
Marinelli, W. 1924 A, 26, fig. 3.
Sinclair, W. J. 1921 C, 473.
Weber and Abel 1928 A, 621, fig. 418.
Oligocene (Lower); South Dakota.

Archæotherium mortoni Leidy.

Hay, O. P. 1902 A, 655 (Elotherium).
Baird, S. F. 1876 A, 334 (Elotherium mortonii).
Barbour, E. H. 1925 B, 31 (Elotherium).
Cook, H. J. 1912 D, 37 (Entelodon).
Darton, N. H. 1905 A, 173 (Elotherium).
Gervais, P. 1859 A, 360 (A. mortoni, A. robustum).
Matthew, W. D. 1901 B, 356 (Elotherium. This species?).
1909 C, 106 (Elotherium).
Merrill, G. P. 1907 A, 24 (A. mortoni, A. robustum); 35 (Elotherium).
Peterson, O. A. 1909 A, 47, figs. 4-6.
Scott, W. B. 1913 A, 367, fig. 193.
Sinclair, W. J. 1921 C, 476, figs. 7, 8.
1922 B, 54, 59, figs. 1-5.
1924 A, 101, 102, 124, 126, fig. 9.
Trouessart, E. L. 1905 A, 653 (Entelodon).
Troxell, E. L. 1920 B, 249.
1921 A, 475.
Zittel and Schlosser 1911 A, 475 (Syn. of Elotherium).
1923 A, 563 (Elotherium).
Oligocene (White River); South Dakota: (Brule); Nebraska.

Archæotherium scotti Sinclair.

Sinclair, W. J. 1921 C, 468, figs. 1-3, 22.
1924 A, 125, 126.
Oligocene (Chadron); South Dakota.

Archæotherium wanlessi Sinclair.

Sinclair, W. J. 1921 C, 472, figs. 5, 6, 9, 21.
Marinelli, W. 1924 A, 27.
Sinclair, W. J. 1924 A, 102, 126.
Oligocene (Lower Brule); South Dakota.

Archæotherium sp. indet.

Condon, T. 1901 A, 100, pl. xvi ("Elotherium").
1910 A, 119, pl. xvi ("Entelodon"). Oligocene; Oregon.
Cook, H. J. 1912 D, 41 (Entelodon). Lower Miocene (Lower Harrison); Nebraska.
Figgins, J. D. 1921 A, 19.
Gregory and Cook 1928 A, 3. Oligocene (Chadron); Colorado.
Matthew, W. D. 1909 C, 104, 108, 113 (Elotherium). Oligocene (Lower and Upper): Lower Miocene (Harrison); Nebraska.
Merriam, J. C. 1901 B, 586, fig. 5 ("Elotherium").
Merriam and Sinclair 1907 A, 188, 190, 191, 192. John Day; Oregon.
Merrill, G. P. 1907 A, 24 (Arctodon). Oligocene (White River); South Dakota.
Sinclair, W. J. 1924 A, 102.
Troxell, E. L. 1920 B, 372. Oligocene (Cedar Creek?); Colorado.

CHŒRODON Troxell. Type *C. caninus* Troxell.

Troxell, E. L. 1920 B, 442.

Chœrodon caninus Troxell.

Troxell, E. L. 1920 B, 442, figs. 19. 20.
Weber and Abel 1928 A, 619, fig. 415.
Oligocene (Middle John Day); Oregon.

DINOHYUS Peterson. Type *Dinochœrus hollandi* Peterson.

Peterson, O. A. 1905 D, 719.
Abel, O. 1926 B, 373, 443.
Barbour, E. H. 1925 B, 32.
Eastman, C. R. 1912 C, 658.
Haug, E. 1911 A, 1705.
Matthew, W. D. 1909 C, 108.
Osborn, H. F. 1907 F, 872.
1909 D, 72, 74.
1910 B, 612.
1912 G, 247, 249.
Peterson, O. A. 1905 C, 212 (Dinochœrus, preoccupied).
1909 A, 66.
1912 B, 167.
Troxell, E. L. 1920 B, 361.
1921 A, 475.

Scott, W. B. 1913 A, 239, 366.
Weber and Abel 1928 A, 622.
Zittel and Schlosser 1911 A, 475.
    1923 A, 563, 672.

Dinohyus hollandi Peterson.

Peterson, O. A. 1905 C, 212 (Dinochœrus).
Abel, O. 1914 A, 155, fig. 106.
Allen, G. M. 1926 A, 450.
Barbour, E. H. 1924 A, 13 ("Dinohyus").
Cook, H. J. 1912 D, 41.
Matthew, W. D. 1909 C, 113.
    1923 D, 359, figs. 8, 11.
O'Harra, C. C. 1910 A, 104.
    1920 A, 118, 157, pl. xxxvii; text-figs. 55, 56, 58.
Osborn, H. F. 1910 B, 187, figs. 80, 83.
    1918 B, 132 ("Dinohyus").
Peterson, O. A. 1905 D, 719.
    1906 B, 491.
    1906 C, 49, pls. xvi, xvii.
    1909 A, 66, pls. lv-lxii; text-figs. 29-70, 72-80.
Troxell, E. L. 1920 B, 252.
Zittel and Schlosser 1911 A, 475.
    1923 A, 563, fig. 700.
  Lower Miocene (Harrison); Nebraska.

Dinohyus mento Allen.

Allen, G. M. 1926 A, 450, pl. i (This genus?).
  Miocene? (Phosphate beds); South Carolina.

Dinohyus sp. indet.

Cook, H. J. 1912 D, 42. Pliocene (Upper Harrison); Nebraska.
Loomis, F. B. 1923 A, 222. Miocene (Lower Harrison); Nebraska.

PELONAX Cope. Type *P. ramosus* Cope.

Cope, E. D. 1874 B, 504.
Hay, O. P. 1902 A, 654 (Elotherium, in part).
Barbour, E. H. 1925 B, 32.
Marinelli, W. 1924 A, 26.
Palmer, T. S. 1904 A, 520, 929.
Peterson, O. A. 1909 A, 56.
Troxell, E. L. 1920 B, 254, 361.
Wallace, A. R. 1876 A, 138.

Pelonax bathrodon (Marsh).

Hay, O. P. 1902 A, 656 (Ammodon).
Cook, H. J. 1912 D, 39 (Entelodon bothrodon).
Matthew, W. D. 1909 A, 108, fig. 13 (Elotherium).
    1909 C, 108 (Elotherium).
O'Harra, C. C. 1920 A, 154 (Elotherium).
Peterson, O. A. 1909 A, 57, fig. 13.
Troxell, E. L. 1920 B, 251, 432, pl. iii, fig. B; text-fig. 14.
  Upper Oligocene (Brule); South Dakota.

Pelonax potens (Marsh).

Hay, O. P. 1902 A, 656 (Ammodon).
Marinelli, W. 1924 A, 27, fig. 4.
Peterson, O. A. 1909 A, 60, fig. 14.
Troxell, E. L. 1920 B, 251, 431, figs. 13, 14.
Weber and Abel 1928 A, 622, fig. 420.
  Middle Oligocene (Cedar Creek); Colorado.

Pelonax ramosus Cope.

Hay, O. P. 1902 A, 656 (Elotherium).
Baird, S. F. 1876 A, 334 (Elotherium).
Cope and Matthew 1915 A, pl. cix, figs. 1, 2; pl. cix *a*, fig. 1 (Elotherium, Pelonax).
Dall and Harris 1892 A, 289 (Elotherium).
Matthew, W. D. 1901 B, 356, 357 (Elotherium).
    1909 C, 106 (Pelonax).
Osborn, H. F. 1904 F, 41 (Elotherium).
Peterson, O. A. 1909 A, 56, fig. 12 (Pelonax).
Troxell, E. L. 1920 B, 251, 253.
  Middle Oligocene (Cedar Creek); Colorado.

MEGACHŒRUS Troxell. Type *M. zygomaticus* Troxell.

Troxell, E. L. 1920 B, 433.
Marinelli, W. 1924 A, 26.
Matthew and Granger 1923 A, 3.

Megachœrus latidens Troxell.

Troxell, E. L. 1920 B, 437, figs. 17, 18.
Sinclair, W. J. 1921 C, 493.
  Oligocene (Upper Brule); South Dakota.

Megachœrus zygomaticus Troxell.

Troxell, E. L. 1920 B, 433, fig. 16.
Marinelli, W. 1924 A, 27, fig. 5.
Sinclair, W. J. 1921 C, 486, figs. 18, 19.
Weber and Abel 1928 A, 620, fig. 421.
  Oligocene (Upper Brule); South Dakota.

BOÖCHŒRUS Cope. Type *B. humerosus* Cope.

Hay, O. P. 1902 A, 654 (Elotherium, in part).
Barbour, E. H. 1925 B, 32.
Osborn, H. F. 1910 B, 218, 549.
Palacký, J. 1903 B, 312.
Palmer, T. S. 1904 A, 139, 928.
Peterson, O. A. 1909 A, 61.
Scott, W. B. 1913 A, 367.

Boöchœrus humerosus Cope.

Hay, O. P. 1902 A, 655 (Elotherium).
Cope and Matthew 1915 A, pl. cix *a*, figs. 3-8; pl. cx [(B. Dæodon?)].
Matthew, W. D. 1909 C, 108.
Merriam and Sinclair 1907 A, 186 (Elotherium).
Peterson, O. A. 1909 A, 61, 122, figs. 15-17.
Sternberg, C. 1881 C, 417.
    1884 B, 676.
    1909 C, 186 (Elotherium).
  Oligocene (John Day); Oregon.

DÆODON Cope. Type *D. shoshonensis* Cope.

Hay, O. P. 1902 A, 633.
Barbour, E. H. 1925 B, 32.
Holland and Peterson 1913 A, 213.
Matthew, W. D. 1909 C, 108.
Osborn, H. F. 1910 B, 549.
Palmer, T. S. 1904 A, 214, 941.
Peterson, O. A. 1909 A, 63.
Troxell, E. L. 1921 A, 476.

Dæodon calkinsi (Sinclair).

Sinclair, W. J. 1905 A, 132, pl. xv (Elotherium).
Matthew, W. D. 1909 C, 108 (Elotherium?).
Merriam and Sinclair 1907 A, 186, 191, 192 (Elotherium).
Peterson, O. A. 1909 A, 64, fig. 19.
Troxell, E. L. 1920 B, 249 (Enteledon); 442 (Chœrodon).
Upper Oligocene (John Day); Oregon.

Dæodon shoshonensis Cope.

Hay, O. P. 1902 A, 633.
Matthew, W. D. 1909 C, 108.
Merriam and Sinclair 1907 A, 186.
Peterson, O. A. 1909 A, 64, fig. 18.
Troxell, E. L. 1920 B, 251.
1921 A, 476.
Upper Oligocene (John Day); Oregon.

AMMODON Marsh. Type *A. leidyanus* Marsh.

Hay, O. P. 1902 A, 656.
Palmer, T. S. 1904 A, 92, 927.
Peterson, O. A. 1909 A, 67, fig. 22 (This genus?).

Ammodon leidyanus Marsh.

Hay, O. P. 1902 A, 656.
Peterson, O. A. 1909 A, 67, figs. 20, 21 (A. leidyanum).
Rhoads, S. N. 1903 A, 237 (A. leidyanum).
Troxell, E. L. 1920 B, 252, 441, pl. iii, fig. C.
1921 A, 475.
Weber and Abel 1928 A, 623.
Miocene?; New Jersey.

SUIDÆ Gray.

Gray, J. E. 1821 A, 306.
Hay, O. P. 1902 A, 653.
Abel, O. 1913 B, 729, 739.
1914 A, 157.
1919 A, 800.
Adloff, P. 1901 A, 481 (Sus).
1901 C, 419 ("schweine").
1913 A, 238 ("schweine").
1913 C, 12 (Sus).
Ahrens, H. 1912 A, 513 ("schweine").
1913 B, 109 (Sus).
Ameghino, F. 1889 A, 1025.
1912 B, 171 ("suidés").
Anderson, R. J. 1912 D, 253.
Andres, J. 1924 A, 259.
Arldt, T. 1907 D, 683.
Bäumler, H. 1922 A, 140 ("schweine").
Bardeleben, K. 1907 B, 155 ("schwein").
Baum, H. 1920 A, 19, figs. 5, 11-15, 18-20 ("schwein").
Beecker, A. 1903 A, 596 (Sus).
Behlen, H. 1906 A ("schweine").
1907 A ("suiden").
Bertelli, D. 1909 A, 166, figs. 6, 32 (Sus).
Beyer, H. 1908 A, 81, 98 ("schweine").
Bild, A. 1902 A, 401 (Sus).
Black, N. 1900 A, 11 (Suina).
Blendinger, W. 1904 A, 456, fig. 2 ("schwein").
Boas, J. E. V. 1884 B, 394 ("schweine").
Bolk, L. 1922 A, 130.
Bonaparte, C. L. 1832 A, 292 (Suina).
Burlet, H. M. 1913 B, 397, fig. 7 (Sus).
Carus, J. V. 1875 A, 146 (Suina).
Cleland, J. 1863 B, 300 ("pigs").
Cope, E. D. 1885 EE, 606 ("hogs").
Cuvier, F. 1825 A, 208 ("sangliers").
Cuvier, G. 1805 A ("cochons").
1825 A, II, 115-126, pls. i, ii ("cochons").
Dependorf, T. 1907 C, 109 ("suiden").
Depéret, C. 1905 C, 704 ("suidés").
1906 A, 619 ("suidés").
1906 B, 1120 ("suidés").
1907 B ("suidés").
Dieterich, K. 1841 A, 84 (Sus).
Disselhorst, R. 1906 A, 324 ("schweine").
Dixey, F. A. 1881 A, 69, pl. ii, fig. 3 ("pig").
Doran, A. H. G. 1878 A, 422.
Ellenberger and Baum 1903 A ("schweine").
Engelman, O. 1910 A, 486 ("schweine").
Fairchild, H. L. 1894 A, 208 ("hogs").
Foote, J. S. 1916 A, 104 (Sus).
Forster, A. 1901 A, 103 ("schwein").
Frassetto, F. 1903 A, 193.
Frech, F. 1906 A, 492 ("schweine").
Gaudry, A. 1891 C, 130 ("schweine").
Gaupp, E. 1905 D, 1040 ("schweine").
1910 C, 336 ("schwein").
Gegenbaur, C. 1880 A, 590 ("schweine").
1888 A, 395 ("schweine").
Gervais, P. 1852 A, 98 (Sus).
1859 A, 173 ("suidés"); 175 ("suins").
Gidley, J. W. 1920 A, 653.
Giebel, C. G. 1883 A ("schweine").
Gregory, W. K. 1920 A, 193, figs. 166-168.
1920 B, 266.
Haller, G. 1922 A ("schweine").
Hanson, F. B. 1918 A, 291.
1919 A, 197 (Sus).
1920 C, 1 (Sus).
Hasse, C. 1872 B, 547 ("schwein").
Hasse and Schwarck 1870 A, 141 (Sus).
Hayek, H. 1926 A, 171 ("schwein").
Hoernes, R. 1886 A, 681.
Holland, W. J. 1912 B, 750.
Hollard, H. 1864 C, 362 ("suidés").
Hrdlička, A. 1903 A, 379.

Hrdlička, A. 1921 A, 166.
Huxley, T. H. 1856 A, 49 ("pig").
1863 E, 553 ("pig").
1870 F, 530 ("pigs").
Jacobi, A. 1921 A, 216.
Kampfen, P. N. 1905 A, 583.
Kingsley, J. S. 1900 A, 221 ("pig").
Klatt, B. 1912 A, 165 ("schweine").
Knottnerus-Meyer, F. 1907 A, 7, 97.
Köstlin, O. 1844 A ("schweine").
Kravetz, L. P. 1906 A, 10, pls. i, ii ("schwein").
1906 A, 10 ("schweine").
Laloy, L. 1907 A, 586 ("suidés").
Lankester, E. R. 1908 A, 324 ("pigs").
Lavocat, A. 1885 A, 48 ("suidés").
Leboucq, H. 1884 A, 85, fig. 43 ("porc").
Leche, W. 1887 A.
Lepkowski, W. 1897 A, 571, figs. 3-6, 8-11 ("schweine").
Leunis and Ludwig 1883 A, 239 (Suina).
Lobley, J. L. 1908 A, 200, 204.
Loomis, F. B. 1925 E, 584, fig. 4.
Lydekker, R. 1913 B, 7.
1915 D, 306.
Major, C. J. F. 1901 B, 245.
Martins, C. 1867 A, 68 ("cochons").
Matthew, W. D. 1901 B, 371.
1915 K, 457, fig. 17 ("pigs and peccaries").
1924 C, 176.
1928 B, 968 ("pigs").
Mead, C. S. 1909 A, 167 (Sus).
Meckel, J. F. 1825 A ("schweine").
Nauck, E. 1926 A, 208, figs. 1, 2 ("schwein").
1926 B, 45, figs. 10-12 (Sus).
Noordenbos, W. 1905 B, 376 ("schwein").
Owen, R. 1848 B, 129, fig. 24 (Sus).
1866 A, 469.
Palmer, T. S. 1904 A, 772, 927.
Pander and Alton 1821 B, 17, pls. xi, xii ("schweine").
Parker, W. K. 1879 C, 342 ("pig").
Paulli, S. 1900 A, 193, figs. 7-10 ("schweine").
Peter, K. 1924 B, 461, figs. 1, 5-7, 15 ("schweine").
Pictet, F. J. 1853 A, 323 ("cochons").
Pilgrim, G. E. 1913 A, 298.
Popowa, N. 1913 A, 279 ("schweine").
Pouchet and Chabry 1884 A, 161 ("porc").
Puntigam, F. 1925 A, 470.
Rathke, H. 1846 A, 168 ("cochoins").
Rehs, J. 1914 A, 48.
Reichert, K. B. 1837 A, 207, pls. vii-ix ("schweine").
1849 A, 447, 467 ("schwein").
Retterer, E. 1884 A, 486, 509 ("porc").
Retterer and Lelièvre 1910 B, 988 ("porc").
Retzius, A. 1837 A, 488 ("schwein").
Rosenberg, A. 1873 A, 121 ("schwein").
Schlosser, M. 1900 C, 134 ("schweine").
1902 J, 256.
1902 K, 463 ("suiden").
1903 I, 182 ("suiden").
1911 A, 165 ("suiden").
Schmalhausen, J. J. 1908 B, 373 ("schweine").
Schmidt, O. 1886 A, 137.
Schorr, G. 1908 A, 80, figs. 1-15 ("schwein").
Scott, W. B. 1896 D, 57 ("pigs").
1917 A, 144 ("pigs").
Sippel, W. 1907 A, 509, figs. 8, 9 (Sus).
Sisson, S. 1910 A, 136, figs. 105-114.
Stadelmann, F. 1916 A, 114, pls. viii, ix (Sus).
Stehlin, H. G. 1908 A, 691, 738.
Taschenberg, O. 1899 A, 4684.
Tims, H. W. M. 1903 A, 143.
Tornier, G. 1888 A, 230 ("schweine").
1891 A, 122 ("suiden").
Tourneux, F. and J. P. 1912 A, 69, figs. 4-6 ("porc").
Trouessart, E. L. 1905 A, 652.
Van Bemmelen, J. F. 1918 A, 572.
Wallace, A. R. 1876 A, I, 119; II, 214.
1894 A, 435.
Weber, M. 1904 A, 643, 647.
Weber and Abel 1928 A, 538, 547.
Whitehead and Waddell 1911 A, 93, figs. 1-4 ("pig").
Windle, B. C. A. 1905 A, 1051 ("schweine").
Winge, H. 1906 A, 70, 143 (Suini).
Woodward, A. S. 1898 D, 335 ("pigs").
Wright, R. R. 1883 A, 263.
Zaaijer, T. 1894 A, 340, fig. 4 (Sus).
Zierler, F. E. 1905 A, 508 ("suiden").
Zimmerman, A. 1912 A, 650 ("schwein").
Zittel, K. A. 1897 A, 126 ("suiden").
Zittel and Schlosser 1911 A, 472.
1923 A, 560, 562.

SUINÆ.

Hay, O. P. 1902 A, 656 (Hyotheriinæ); 661 (Suinæ).
Arldt, T. 1907 D, 659 (Hyotherinæ).
Cope, E. D. 1888 X, 1087 (Hyotheriinæ).
Matthew, W. D. 1924 C, 177.
Palmer, T. S. 1904 A, 747, 927 (Hyotheriinæ).
Weber, M. 1904 A, 649.

HYOTHERIUM Meyer. Type *H. sömmerringii* Meyer.

Hay, O. P. 1902 A, 656.
Beddard, F. E. 1902 A, 280.
Depéret, C. 1892 A, 84.
Filhol, H. 1881 A, 6-39, pls. iv-x.
Gervais, P. 1859 A, 181.
Giebel, C. G. 1883 A, 125.
Heilprin, A. 1887 A, 374.
Lydekker, R. 1887 D, 19, fig.
Matthew, W. D. 1924 C, 177.
1928 B, 981, fig. 16.
Matthew and Cook 1909 A, 391.
Palmer, T. S. 1904 A, 339, 928.
Pilgrim, G. E. 1913 A, 298, 313.
Schlosser, M. 1916 A, 21.
Seeley, H. G. 1878 A, 223.
Trouessart, E. L. 1905 A, 655.
Weber, M. 1904 A, 652.

The two species here arranged under *Hyotherium* probably belong elsewhere.

Hyotherium americanum Scott and Osborn.

Hay, O. P. 1902 A, 656.
Matthew and Cook 1909 A, 391 ("=an oreodont").
Trouessart, E. L. 1905 A, 656.
Oligocene (White River); region of South Dakota and Nebraska.

Hyotherium platyops Cope.

Hay, O. P. 1902 A, 656.
Cook, H. J. 1912 D, 39 (Perchœrus).
Matthew, W. D. 1909 C, 109 (Perchœrus?)
O'Harra, C. C. 1920 A, 154 (Perchœrus).
Trouessart, E. L. 1905 A, 656.
Upper Oligocene (Brule); region of South Dakota and Nebraska.

PALÆOCHŒRINÆ Matthew.

Matthew, W. D. 1924 C, 176.

PERCHŒRUS Leidy. Type *Palæochœrus probus* Leidy.

Hay, O. P. 1902 A, 657 (Perchœrus); 658 (Bothrolabis).
Arldt, T. 1907 D, 259 (Bothrolabis).
Barbour, E. H. 1925 B, 32 (Thinohyus).
Boule and Thevenin 1920 A, 164 (Perchœrus); 165 (Thinohyus).
Condon, T. 1902 A, 120, pl. xvii (Bothrolabis).
Cope, E. D. 1880 U, 156 (Palæochœrus).
Gaudry, A. 1875 D, 1282.
Gidley, J. W. 1904 A, 268.
Giebel, C. G. 1883 A, 124.
Gregory, W. K. 1920 A, 191, fig. 164.
Haug, E. 1911 A, 1528, 1529.
Heilprin, A. 1887 A, 354 (Thinohyus).
Hoernes, R. 1886 A, 682 (Tinohyus).
Kampfen, P. N. 1905 A, 587.
Lydekker, R. 1908 A, 510.
Matthew, W. D. 1901 B, 369, 370.
1907 A, 176, 178, 216 (Perchœrus, Thinohyus).
1909 C, 111.
1915 A, 243.
1915 K, 420.
1924 C, 176 (Perchœrus, Bothrolabis, Thinohyus).
1928 B, 981, fig. 16.
Merriam and Sinclair 1907 A, 190 (Thinohyus).
O'Harra, C. C. 1910 A, 105, 150.
Osborn, H. F. 1907 G, 197, fig. 199 (Thinohyus).
1910 B, 220, 223, 231 (Thinohyus).
Palacký, J. 1903 B, 312 (Perchœrus, Bothrolabis, Thinohyus).
Palmer, T. S. 1904 A, 141, 928 (Bothrolabis); 523, 929 (Perchœrus).
Pearson, H. S. 1923 A, 62, figs. 3, 4, 15, 16.
Peterson, O. A. 1906 A, 305 (Bothrolabis).
Scott, W. B. 1913 A, 361 (Thinohyus); 365 (Perchœrus)
Sinclair, W. J. 1905 A, 135 (Bothrolabis; a syn. of Thinohyus).
1924 A, 126.
Thorpe, M. R. 1923 E, 241.
Trouessart, E. L. 1905 A, 657 (Perchœrus, Bothrolabis).
Weber, M. 1904 A, 655 (Bothrolabis).
Zittel and Schlosser 1911 A, 473 (Perchœrus, Thinohyus).
1923 A, 561, 670-672.

Perchœrus antiquus Marsh.

Hay, O. P. 1902 A, 657.
Rhoads, S. N. 1903 A, 238 (Thinohyus).
Trouessart, E. L. 1905 A, 657.
Miocene (Shark River); New Jersey.

Perchœrus lentus (Marsh).

Hay, O. P. 1902 A, 657.
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 186, 190 [Thinohyus (Bothrolabis)].
Peterson, O. A. 1906 A, 319 (Thinohyus).
Sinclair, W. J. 1905 A, 135 (Thinohyus).
Trouessart, E. L. 1905 A, 657.
Upper Oligocene (John Day); Oregon.

Perchœrus minor Cook.

Cook, H. J. 1922 C, 358, fig. 20.
Pearson, H. S. 1923 A, 75.
Lower Oligocene (Chadron); Nebraska.

Perchœrus nanus (Marsh).

Hay, O. P. 1902 A, 657.
Cook, H. J. 1912 D, 37.
Matthew, W. D. 1909 C, 106
Pearson, H. G. 1923 A, 93.
Sinclair, W. J. 1924 A, 102, 126
Trouessart, E. L. 1905 A, 657.
Middle Oligocene (Brule); South Dakota.

Perchœrus osmonti (Sinclair).

Sinclair, W. J. 1905 A, 138, pl. xvii (Thinohyus).
Matthew, W. D. 1909 C, 109.
Merriam, J. C. 1901 B, 589, fig. 7 ("peccary").
Merriam and Sinclair 1907 A, 186, 188, 190 [Thinohyus (Bothrolabis)].
Upper Oligocene (John Day); Oregon.

Perchœrus pristinus Leidy.

Hay, O. P. 1902 A, 658 (Bothrolabis).
Cope and Matthew 1915 A, pl. cix *a*, fig. 9 (Thinohyus, Perchœrus); pl. cxi, fig. 2 (Palæochœrus, Perchœrus).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 186, 189, 190 (Thinohyus).
Pearson, H. S. 1923 A, 69, 78, 80, 85, figs. 5, 10, 12, 17.
Sinclair, W. J. 1905 A, 140 (Thinohyus).
Trouessart, E. L. 1905 A, 657 (Bothrolabis).
Upper Oligocene (John Day); Oregon.

Perchœrus probus Leidy.

Hay, O. P. 1902 A, 657.
Cook, H. J. 1912 D, 37.
Giebel, C. G. 1883 A, pl. xliii,
Matthew, W. D. 1909 C, 106.
O'Harra, C. C. 1920 A, 152.

Pearson, H. S. 1923 A, 72, 74, figs. 6-9, 15, 16.
Sinclair, W. J. 1924 A, 126.
Trouessart, E. L. 1905 A, 657.
Middle Oligocene (Brule); South Dakota.

Perchœrus robustus (Marsh).

Hay, O. P. 1902 A, 657.
Cook, H. J. 1912 D, 39.
Matthew, W. D. 1909 C, 109.
O'Harra, C. C. 1920 A, 154.
Trouessart, E. L. 1905 A, 657.
Upper Oligocene (Upper Brule); South Dakota, Nebraska: (John Day); Oregon.

Perchœrus rostratus (Cope).

Hay, O. P. 1902 A, 658 (Bothrolabis).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 186, 189, 190 (Thinohyus).
Pearson, H. S. 1923 A, 69, 78, figs. 11, 13.
Sinclair, W. J. 1905 A, 140 (Thinohyus).
Trouessart, E. L. 1905 A, 657 (Bothrolabis).
Upper Oligocene (John Day); Oregon.

Perchœrus socialis (Marsh).

Hay, O. P. 1902 A, 657.
Cope and Matthew 1915 A, pl. cxi, fig. 3 (Palæochœrus, Perchœrus).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 186 [Thinohyus (Bothrolabis)].
Pearson, H. S. 1923 A, 94, fig. 16.
Trouessart, E. L. 1905 A, 657.
Upper Oligocene (John Day); Oregon.

Perchœrus subæquans (Cope).

Hay, O. P. 1902 A, 658 (Bothrolabis).
Cook, H. J. 1912 D, 42 (Desmathyus. This species?).
Cope and Matthew 1915 A, pl. cx *a*, fig. 1 (Palæochœrus, Perchœrus).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 186 (Thinohyus).
Pearson, H. S. 1923 A, 72 (Thinohyus).
Peterson, O. A. 1906 A, 306, figs. 1-3 (Thinohyus. This species?).
Sinclair, W. J. 1905 A, 140 (Thinohyus).
Trouessart, E. L. 1905 A, 657 (Bothrolabis).
Upper Oligocene (John Day); Oregon: Lower Miocene (Upper Harrison); Nebraska.

Perchœrus trichænus (Cope).

Hay, O. P. 1902 A, 658 (Bothrolabis).
Cope and Matthew 1915 A, pl. cx *a*, fig. 2 (Palæochœrus; Perchœrus).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 186 (Thinohyus).
Pearson, H. S. 1923 A, 71, 80, figs. 14-16.
Peterson, O. A. 1906 A, 306 (Bothrolabis).
Sinclair, W. J. 1905 A, 140 (Thinohyus).
Trouessart, E. L. 1905 A, 657 (Bothrolabis).
Upper Oligocene (John Day); Oregon.

Perchœrus sp. indet.

Condon, T. 1902 A, 120, pl. xvii ("Bothrolabis").
1910 A, 101, pl. xvii ("Bothriolabis"). Oligocene (John Day); Oregon.
Cook, H. J. 1912 D, 35 Oligocene (Chadron); Nebraska.
Merriam, J. C. 1911 B, 275, fig. 55 (Thinohyus?). (Virgin Valley); Nevada.
Wanless, H. R. 1923 A, 220. Oligocene (White River); Nebraska.

CHÆNOHYUS Cope. Type *C. decedens* Cope.

Hay, O. P. 1902 A, 658.
Barbour, E. H. 1925 B, 32.
Beddard, F. E. 1902 A, 280.
Heilprin, A. 1887 A, 374 (Chœnohyus).
Matthew, W. D. 1909 C, 111.
1924 C, 176.
Osborn, H. F. 1910 B, 549.
Palacký, J. 1903 B, 312.
Palmer, T. S. 1904 A, 176, 928.
Sinclair, W. J. 1905 A, 135 (Syn. of Thinohyus).

Chænohyus decedens Cope.

Hay, O. P. 1902 A, 658.
Cope and Matthew 1915 A, pl. cx *a*, fig. 3; pl. cxi, fig. 1.
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 186, 188, 190 (Thinohyus).
Peterson, O. A. 1906 A, 318 (Thinohyus).
Sinclair, W. J. 1905 A, 134, 139, 140, pl. xvi (Thinohyus).
Trouessart, E. L. 1905 A, 657.
Oligocene (John Day); Oregon.

TAYASSUIDÆ Palmer.

Palmer, T. S. 1897, Proc. Biol. Soc. Wash., xi, 174.
Hay, O. P. 1902 A, 658 (Tayassuinæ).
Allen, J. A. 1902 A, 162 ("peccaries").
Ameghino, F. 1912 B, 170 ("dicotylinés").
Arldt, T. 1907 B, 453 ("dicotylinen").
1907 D, 650 (Dicotylinæ).
1912 A, 700, 746 (Tayassinæ).
Barbour, E. H. 1925 B, 25, 32 (Dicotylidæ, Tagassuidæ).
Beddard, F. E. 1902 A, 278 (Dicotylidæ).
Boule and Thevenin 1920 A, 163 ("pecaris").
Cuvier, F. 1825 A, 210 ("dicotyles").
Elliot, D. G. 1901 A, 33 (Dicotylidæ).
Gervais, P. 1855 B, 335 ("pécaris").
Gidley, J. W. 1920 A, 654.
Gill, T. 1902 B, 38 ("peccaries").
Grant, M. 1904 B, 196, 205 (Dicotylidæ).
Hanson, F. B. 1918 A, 291 ("peccaries").
Hay, O. P. 1912 D, 595.
1914 A, 212.
1923 A, 5, 312 (Tagassuidæ).
1927 E, 76 ("peccaries").

Knottnerus-Meyer, T. 1907 A, 6, 97, 102 (Tayassidæ).
Lydekker, R. 1907 B, 63 (Dicotylidæ).
1913 B, 7 (Dicotylidæ).
1915 D, 374 (Dicotylinæ).
Matthew, W. D. 1907 A, 216 (Dicotylidæ).
1909 C, 113, 115, 117, 119, 120 (Dicotylidæ, Tagassuidæ).
1910 H, 477 ("peccaries").
1915 A, 241, 254, figs. 21, 23 (Dicotylidæ).
1918 A, 214 (Dicotylidæ).
1924 C, 176 (Dicotylidæ); 177 (Dicotylinæ).
1928 B, 968, 980 ("peccaries").
Miller, G. S. 1912 B, 383.
1924 C, 481.
O'Harra, C. C. 1910 A, 103 (Dicotylidæ).
1920 A, 118 (Dicotylidæ).
Osborn, H. F. 1905 I, 109 (Dicotylidæ).
1909 D, 59, 63 (Dicotylidæ).
1910 B, 612 (Dicotylidæ).
Palmer, T. S. 1904 A, 773 (Tayassuidæ); 930 (Tagassuidæ).
Paulli, S. 1900 A, 199, figs. 11, 12 (Dicotyles).
Scharff, R. F. 1911 A, 156 ("peccaries").
Schlosser, M. 1902 J, 258 ("peccaries").
Schwarz, E. 1924 A, 420 ("peccaries").
Scott, W. B. 1913 A, 361, 363 (Tagassuidæ).
1916 A, 119 ("water-hogs").
1928 B, 260 ("peccaries").
Trouessart, E. L. 1905 A, 658 (Tayassinæ).
Wallace, A. R. 1876 A, II, 215 ("peccaries").
Weber, M. 1904 A, 651 (Dicotylinæ).
Weber and Abel 1928 A, 553 (Dicotylinæ).
Winge, H. 1906 A, 70, 138, 143 (Dicotylini).
Woodward, A. S. 1923 C, 37 (Dicotylidæ).

CYNORCA Cope. Type *C. proterva* Cope.

Cope, E. D. 1867 C, 144, 152.
Hay, O. P. 1902 A, 589 (Squalodon).
Case, E. C. 1904 D, 7, pl. X, figs. 4, 5 (Squalodon).
Cope, E. D. 1868 I, 185.
Kellogg, R. 1923 A, 28.
Leidy, J. 1869 A, 423.
Palmer, T. S. 1904 A, 213.

Cynorca proterva Cope.

Cope, E. D. 1867 C, 144, 152.
Hay, O. P. 1902 A, 589 (Squalodon).
Cope, E. D. 1868 I, 185.
Kellogg, R. 1923 A, 28.
Shattuck, G. B. 1904 A, xciv (Squalodon).
Middle Miocene (Calvert); Maryland.

DESMATHYUS Matthew. Type *D. pinensis* Matthew.

Matthew, W. D. 1907 A, 173, 217.
Barbour, E. H. 1925 B, 32.
Boule and Thevenin 1920 A, 165.
Loomis, F. B. 1910 A, 381 (Pediohyus, type P. ferus).
Lydekker, R. 1908 A, 510.
Matthew, W. D. 1909 C, 119.
1915 A, 242.
1924 C, 177, 178 (Desmathyus; Pediohyus a syn.).
O'Harra, C. C. 1910 A, 105, 131.
Osborn, H. F. 1909 D, 74, 75.
1910 B, 236, 286, 549.
1912 G, 249.
Pearson, H. S. 1923 A, 66, 68.
Scott, W. B. 1913 A, 361.

Desmathyus ferus (Loomis).

Loomis, F. B. 1910 A, 381, fig. 1 (Pediohyus).
Lower Miocene (Upper Harrison); Nebraska.

Desmathyus pinensis Matthew.

Matthew, W. D. 1907 A, 173, 217.
1909 C, 113.
O'Harra, C. C. 1920 A, 157.
Lower Miocene (Rosebud); South Dakota.

Desmathyus siouxensis (Peterson).

Peterson, O. A. 1906 A, 308, pls. XXXIV, XXXV; text-fig. 4 (Thinohyus).
Cook, H. J. 1912 D, 41.
Matthew, W. D. 1907 A, 216, 217.
1909 C, 113.
O'Harra, C. C. 1920 A, 121, 157, fig. 59.
Peterson, O. A. 1906 C, 35 (Thinohyus).
Lower Miocene (Lower Harrison); Nebraska.

Desmathyus sp. indet.

Matthew, W. D. 1909 C, 113. Miocene (Lower); Nebraska.
1924 C, 180. Middle Miocene (Sheep Creek); Nebraska.

PROSTHENNOPS Gidley. Type *P. crassigenis* Gidley.

Gidley, J. W. 1904 A, 265, 268.
Anonymous 1923 C, 406 (Hesperopithecus).
1924 A, 273 (Hesperopithecus).
Barbour, E. H. 1925 B, 32.
Boule and Thevenin 1920 A, 165.
Gregory, W. K. 1927 F, 397 (Hesperopithecus).
1927 H, 579 (Hesperopithecus); 580 (Prosthennops).
Gregory and Hellman 1923 A, 1 (Hesperopithecus).
1923 B, 509-530 (Hesperopithecus).
Haug, E. 1911 A, 1706.
Matthew, W. D. 1907 A, 217.
Matthew, W. D. 1909 C, 119.
1910 G, 155.
1915 A, 242.
1923 C, 410, 412 (Hesperopithecus).
1924 C, 177, 178.
1928 B, 981, fig. 16.
Merriam, J. C. 1914 C, 644 (This genus?).
1915 E, 197 (This genus?).
Miller, G. S. 1923 B.
O'Harra, C. C. 1910 A, 105, 133.
Osborn, H. F. 1909 D, 80, 81.
1910 B, 629.
1918 A, 23.

Osborn, H. F. 1922 A, 1 (Hesperopithecus, type *H. haroldcookii* Osborn).
1922 C, 464 (Hesperopithecus).
1922 E, 281 (Hesperopithecus).
1928 B, 199, fig. 3 (Hesperopithecus).
Peterson, O. A. 1914 C, 115 (Prostenops).
Scott, W. B. 1913 A, 361.
Smith, G. E. 1922 A, 944, figs. (Hesperopithecus).
Thacker, A. G. 1923 A, 285 (Hesperopithecus).
Thorpe, M. R. 1924 C, 393.
Woodward, A. S. 1922 A, 750 (Hesperopithecus).
Zittel and Schlosser 1911 A, 474.
1923 A, 561, 673, 679 (Prosthennops); 647, 650, 652 (Hesperopithecus).

Prosthennops crassigenis Gidley.

Gidley, J. W. 1904 A, 245, 265, figs. 14, 15.
Barbour, E. H. 1925 B, 27 (P. crassigens).
Cook, H. J. 1912 D, 44 (This species?).
1922 B, 12 (Prosthenops).
Frick, C. 1921 A, 352.
Matthew, W. D. 1909 C, 117.
1918 A, 186, 215 (This species?).
1924 C, 67, 177, 179 [P. (Macrogenis)].
Merriam, J. C. 1911 B, 274.
1917 A, 436 (This species?).
Merriam, Stock, Moody 1925 A, 84.
O'Harra, C. C. 1920 A, 159.
Sinclair, W. J. 1915 A, 77 (This species?).
Thorpe, M. R. 1924 C, 396.
Upper Miocene (Little White River); South Dakota: Lower Pliocene (Upper Snake Creek); Nebraska.

Prosthennops edensis Frick.

Frick, C. 1921 A, 350, figs. 58-63.
Stock, C. 1925 A, 21.
Pliocene (Eden); California.

Prosthennops haroldcookii (Osborn).

Unless otherwise indicated the writers, as cited, use for this species the generic name *Hesperopithecus.*

Osborn, H. F. 1922 A, 2, figs. 1-3.
Abel, O. 1926 B, 299, 365, 446.
Anonymous 1923 B, 412 ("Hesperopithicus").
Cook, H. J. 1926 D, 336 ("Hesperopithecus").
1927 A, 114 ("anthropoid").
Gregory, W. K. 1927 H, 580 (Syn.? of P. serus).
Gregory and Hellman 1923 A, 1, figs.
1923 B, 509-530, figs. 3-6, 11-13.
Matthew, W. D. 1923 A, 12 ("Hesperopithecus").
1924 C, 65.
Mollison, T. 1924 A, 715.
Osborn, H. F. 1922 C, 464.
1922 E, 282, fig. 2.
Pycraft, W. P. 1922 A, 707.
Thacker, A. G. 1923 A, 384.
Weber and Abel 1928 A, 831.
Woodward, A. S. 1922 A, 750.
Lower Pliocene (Upper Snake Creek); Nebraska.

Prosthennops longirostris Thorpe.

Thorpe, M. R. 1924 C, 393, figs. 1-4.
Pliocene; Oregon.

Prosthennops serus (Cope).

Hay, O. P. 1902 A, 659 (Tayassu).
Barbour, E. H. 1925 B, 27.
Cook, H. J. 1922 B, 12 (Prosthenops).
Gidley, J. W. 1904 A, 265.
Gregory, W. K. 1927 H, 580.
Matthew, W. D. 1909 C, 117.
1918 A, 215, fig. 15.
1923 A, 12 (This species?).
1924 C, 67, 177, 178.
Matthew and Cook 1909 A, 390.
Merriam, J. C. 1917 A, 438.
Merriam and Stock 1928 A, 19.
Merriam, Stock, Moody 1925 A, 85.
Thorpe, M. R. 1924 C, 396.
Trouessart, E. L. 1905 A, 658 (Tayassus).
Lower Pliocene (Republican River); Kansas: Upper Snake Creek); Nebraska.

Prosthennops xiphidonticus Barbour.

Barbour, E. H. 1925 B, 25, figs. 12, 13.
Pliocene (Valentine); Nebraska.

Prosthennops sp. indet.

Barbour and Cook 1917 B, 180. Pliocene (Valentine); Nebraska.
Cook, H. J. 1922 B, 12 (Prosthenops). Pliocene (Snake Creek); Colorado.
Freudenberg, W. 1922 A, 4 (This genus?). Pliocene; Mexico.
Merriam, J. C. 1911 B, 272, figs. 52-53 (This genus?). Pliocene (Thousand Creek); Nevada.
1913 E, 378, fig. 5 (This genus?). Pliocene (Siestan); California.
1915 E, 201, fig. 15 (This genus?). Pliocene (Chanac); California.
1916 C, 126. Pliocene (Chanac); California.
1917 A, 426. Pliocene (Chanac); California: 428 (Rattlesnake); Oregon; 436 (Snake Creek); Nebraska.
1919 A, 450, 507, 527, fig. 83 (This genus?). Miocene (Barstow); California.
Merriam and Stock 1928 A, 19, text-fig. 12. Pliocene (Thousand Creek); Nevada.
Merriam, Stock, Moody 1925 A, 54, 59, 83, figs. 37-40 (This genus?). Pliocene (Rattlesnake); Oregon.
Stock, C. 1925 A, 18. Lower Pliocene (Rattlesnake); Oregon.

HESPERHYS Douglass. Type *H. vagrans* Douglass.

Douglass, E. 1903 A, 174.
Matthew, W. D. 1909 C, 119.
Zittel and Schlosser 1923 A, 561, 673 (Hesperhyus).

Hesperhys vagrans Douglass.

Douglass, E. 1903 A, 153, 175, fig. 17.
Matthew, W. D. 1909 C, 115.
Middle Miocene (Flint Creek); Montana.

PLATYGONUS Le Conte. Type *P. compressus* Le Conte.

Hay, O. P. 1902 A, 660.
Baker, F. C. 1920 A, 354.
Barbour, E. H. 1925 B, 32.
Behlen, H. 1906 A, 208.

Boule and Thevenin 1920 A, 164.
Brown, B. 1908 A, 200.
Case, E. C. 1899 B, 172.
Cope, E. D. 1880 U, 158 (Dicotyles).
 1895 G, 596.
Felix and Lenk 1891 A, 127.
Frech and Geinitz 1903 A, 36.
Gidley, J. W. 1904 A, 268 (Platigonus).
 1912 C, 19.
 1920 A, 656, 657.
Giebel, C. G. 1855 A, 73.
 1883 A, 124.
Haug, E. 1911 A, 1706, 1886.
Hay, O. P. 1910 D, 374.
 1912 D, 595, 597.
 1914 A, 212, 217.
Heilprin, A. 1887 A, 374.
Holland, W. J. 1912 B, 750.
Lull, R. S. 1904 C, 7.
Matthew, W. D. 1907 A, 217.
 1910 G, 155.
 1915 A, 241, 242.
 1915 K, 403.
 1924 C, 178.
 1924 E, 748.
 1928 B, 981, fig. 16.
Matthew and Cook 1909 A, 367.
Osborn, H. F. 1905 I, 109.
 1907 G, 171, fig. 153.
 1909 D, 133.
 1910 B, 627.
 1912 G, 251.
 1918 A, 30.
 1925 D, 532.
Palacký, J. 1903 B, 317.
Peterson, O. A. 1912 B, 167.
Rogers, A. F. 1924 A, 544.
Scharff, R. F. 1911 A, 153.
Schlosser, M. 1902 K, 475.
Scott, W. B. 1913 A, 202, 222, 364.
Thorpe, M. R. 1924 C, 395.
Trouessart, E. L. 1905 A, 658.
Upham, W. 1902 A, 149 ("peccaries").
 1903 C, 22679 ("peccaries").
Wallace, A. R. 1876 A, I, 130; II, 215.
Weber, M. 1904 A, 653.
Weber and Abel 1928 A, 554.
Zittel and Schlosser 1911 A, 474.
 1923 A, 561, 680-682.

Platygonus alemanii Dugès.

Dugès, A. 1891 A, 16, pls. i, ii.
Hay, O. P. 1902 A, 661 (Syn. of P. vetus).
Freudenberg, W. 1921 A, 139 (E. alemani).
 1922 A, 5.
Furlong, E. L. 1925 A, 139 (P. almenanii).
Gidley, J. W. 1920 A, 658 (P. alemani).
Villada, M. M. 1903 A, 449, pl. vi (P. alemani).
 Pleistocene; Mexico.

Platygonus bicalcaratus Cope.

Hay, O. P. 1902 A, 660.
Cope, E. D. 1893 A, 68, pl. xiii, fig. 5.
Dumble, E. T. 1894 A, 559.
Frick, C. 1921 A, 355.
Gidley, J. W. 1903 A, 477, fig. 1.
 1903 C, 627.
Matthew, W. D. 1909 C, 120.
Matthew, W. D. 1924 C, 178.
Merriam, J. C. 1917 A. 435.
Montgomery, T. H. 1904 A, 57.
Trouessart, E. L. 1905 A, 658.
 Upper Pliocene (Blanco); Texas.

Platygonus compressus Le Conte.

Hay, O. P. 1902 A, 660 (P. compressus); 661 (P. leptorhinus).
Baker, F. C. 1920 A, 468.
Barton, B. S. 1806 C, 158 ("peccary").
Felix and Lenk 1891 A, 136 (P. compressus?).
Frech and Geinitz 1903 A, 35.
Gervais, P. 1859 A, 365 (Dicotyles).
Gidley, J. W. 1920 A, 657 (P. compressus); 659 (P. leptorhinus).
Hartnagel and Bishop 1921 A, 85, pls. xxii-xxiv.
Haug, E. 1911 A, 1886.
Hay, O. P. 1910 D, 373 ("peccaries").
 1912 D, 599, pls. iii, iv, figs. 3-6; pl. v; text-figs. 40, 41.
 1914 A, 26, 38, 218, pls. xx, xxi, figs. 3-8; pls. xxii-xxv, figs. 1-3; text-fig. 84 (P. leptorhinus).
 1920 A, 311 ("peccaries").
 1920 B, 110.
 1923 A, 494.
 1924 D, 376 (Dicotyles); 384 (Platygonus); 158, 270 (P. leptorhinus).
 1927 D, 299.
 1928 C, 425.
Leidy, J. 1859 J, 184 ("peccary").
Matthew, W. D. 1902 F, 318.
Merriam and Stock 1921 B, 10 (P. compressus, P. leptorhinus); 10, figs. 1-8 (P. "possibly n. sp. or n. sub sp.").
Osborn, H. F. 1904 F, 33 (P. leptorhinus).
 1909 D, 88.
 1910 B, 463, figs. 201, 202 (P. leptorhinus).
 1925 D, 541.
Palacký, J. 1903 B, 317, 324.
Peterson, O. A. 1906 A, 310 (P. leptorhinus).
 1914 C, 114, pl. xxix (Platigonus leptorhinus).
Rath, G. 1886 A, 106 (This species?).
Ruschenberger and Tryon 1879 A, 89 (Dicotyles depressifrons, D. cristatus, Protochœrus prismaticus).
Stock, C. 1928 B, 25, figs. 1-6 (This species?).
Trouessart, E. L. 1905 A, 658.
Troxell, E. L. 1915 A, 616, fig. 24.
 1917 A, 86 ("peccaries").
Villada, M. M. 1903 A, 449.
Wagner, G. 1903 A, 777, figs. 1-4.
Whitney, J. D. 1862 A, 134 (Dicotyles).
Williston, S. W. 1905 A, 335.
Worthen, A. H. 1866 A, 38 ("peccary").
 Pleistocene; Illinois, Indiana, Kentucky, Ohio, New York, Missouri, Iowa, Kansas.

Platygonus condoni Marsh.

Hay, O. P. 1902 A, 660.
Dall and Harris 1892 A, 282 (Dicotyles).
Matthew, W. D. 1924 C, 178.
Thorpe, M. R. 1924 C, 396 (This genus?).
Trouessart, E. L. 1905 A, 658.
 Miocene (Mascall); Oregon.

Platygonus cumberlandensis Gidley.

Gidley, J. W. 1920 A, 659, pls. liv, lv; text-figs. 1-3.
Hay, O. P. 1920 B, 102.
1923 A, 494.
1928 C, 429 (This species?).
Gidley, J. W. 1920 B, 283, pl. vi.
Leighton, M. M. 1921 A, 513 (This species?).
Pleistocene (Middle); Maryland, Illinois.

Platygonus francisi Hay.

Hay, O. P. 1927 D, 298, 299, pl. xi, figs. 1-4.
Pleistocene; Texas.

Platygonus intermedius Gidley.

Gidley, J. W. 1920 A, 660, text-figs. 4-6.
1920 B, 283 ("peccaries").
Hay, O. P. 1920 B, 102.
1923 A, 494.
1927 D, 299.
Pleistocene (Middle); Maryland.

Platygonus rex Marsh.

Hay, O. P. 1902 A, 661.
Gidley, J. W. 1903 A, 479.
Matthew, W. D. 1924 C, 178.
Merriam, J. C. 1911 B, 230.
Merriam and Sinclair 1907 A, 195, 198.
Merriam, Stock, Moody 1925 A, 59, 86 (This formation?).
Osborn, H. F. 1918 A, 30.
Thorpe, M. R. 1924 C, 397.
Trouessart, E. L. 1905 A, 658.
Upper Miocene (Rattlesnake?); Oregon.

Platygonus setiger Hay.

Hay, O. P. 1920 B, 84, pl. iii, figs. 21-23.
1923 A, 491 (Mylohyus, *errore*).
Pleistocene (Middle); Tennessee.

Platygonus striatus Marsh.

Hay, O. P. 1902 A, 661.
1924 D, 159.
Matthew, W. D. 1909 C, 117 (This genus?).
Trouessart, E. L. 1905 A, 658.
Upper Miocene (Arikaree?); Nebraska?

Platygonus tetragonus (Cope).

Hay, O. P. 1902 A, 660 (Tayassu).
Baker, F. C. 1920 A, 208, 213, 395 (Tayassu = Mylohyus).
Boule and Thevenin 1920 A, 166.
Gidley, J. W. 1920 A, 675 (Mylohyus).
Hay, O. P. 1920 B, 101, pl. iv, figs. 16, 17 (This species?).
1923 A, 496 (Tagassu).
Rhoads, S. N. 1903 A, 238 (Mylohyus).
Scharff, R. F. 1911 A, 156 (Tayassu).
Schlosser, M. 1902 H, 143 (Mylohyus).
Trouessart, E. L. 1905 A, 659 (Tayassus).
Pleistocene (Middle); Pennsylvania, Maryland.

Platygonus texanus Gidley.

Gidley, J. W. 1903 A, 478, figs. 2, 5.
Frick, C. 1921 A, 356.
Gidley, J. W. 1903 C, 621.
Matthew, W. D. 1909 C, 120.
Merriam, J. C. 1917 A, 435.
Merriam, Stock, Moody 1925 A, 87.
Osborn, H. F. 1910 B, 365, 458.
Trouessart, E. L. 1905 A, 658.
Upper Pliocene (Blanco); Texas.

Platygonus vetus Leidy.

Hay, O. P. 1902 A, 661.
Baker, F. C. 1920 A, 468.
Frick, C. 1921 A, 356.
Gidley, J. W. 1903 A, 479, figs. 3, 4.
1913 B, 96 (This species?).
1920 A, 658.
1922 B, 120 (This species?).
Hay, O. P. 1912 D, 605, pl. iv, fig. 1.
1914 A, 26.
1920 B, 102, pl. iv, figs. 18, 19 (This species?).
1923 A, 494.
1924 D, 160.
McCornack, E. C. 1920 A, 23 (P. sp. *a*).
Matthew, W. D. 1902 F, 318, 320.
Miller, L. H. 1912 A, 81 (This species?).
Rhoads, S. N. 1903 A, 239 (Platigonus).
Stock, C. 1925 A, 195 (This species?).
Trouessart, E. L. 1905 A, 658.

Platygonus ziegleri Marsh.

Hay, O. P. 1902 A, 661.
Matthew, W. D. 1924 C, 178.
Trouessart, E. L. 1905 A, 658.
Horizon unknown.

Platygonus sp. indet.

Cope, E. D. 1893 A, 87. Pleistocene; Oregon.
Frick, C. 1921 A, 354, figs. 64, 65 (This genus?). Pliocene (Eden); California.
Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1923 A, 354. Pleistocene; Virginia.
1924 D, 382. Pleistocene; Nebraska, Texas.
1927 D, 311. Pleistocene; California, Florida, Oregon.
1928 C, 425.
McCornack, E. C. 1920 A, 23 (P. sp. *b*). Pleistocene (Fossil Lake); Oregon.
Matthew, W. D. 1902 F, 320. Oregon.
1918 A, 227, 228. Pleistocene (Sheridan); Nebraska.
1924 C, 181. Middle Miocene (Sheep Creek); Nebraska.
Merriam, J. C. 1915 E, 222, 227, figs. 32, 41. (Mylohyus or Platygonus): Pleistocene? (Etchegoin); California.
1917 A, 425 (This genus?). Pliocene (Etchegoin); California.
Merriam and Stock 1925 A, 10, 11 (This genus?). Pleistocene (Potter Creek cave); California.
Miller, L. H. 1912 A, 70, 81 (This genus?). Pleistocene (Potter Creek cave); California: (Fossil Lake); Oregon.
Moodie, R. L. 1923 B, 253.
Osborn, H. F. 1925 D, 531 (This genus?). Pleistocene (La Brea); California.
Sinclair, W. J. 1904 A, 18 (This genus?). Pleistocene (cave); California.
1905 B, 149, fig. 1 (This genus?). Pleistocene; California.

Stock, C. 1925 A, 21 (This genus?). Lower Pliocene (Eden); California: 30, 113. Pleistocene (La Brea, Potter Creek Cave); California: 195 (Fossil Lake); Oregon.

Wyman, L. E. 1922 A, 30. Pleistocene (La Brea); California.

MYLOHYUS Cope. Type *Dicotyles nasutus* Leidy.

Cope, E. D. 1889 G, 134.
Hay, O. P. 1902 A, 659 (Tayassu, in part).
Barbour, E. H. 1925 B, 32.
Boule and Thevenin 1920 A, 165.
Brown, B. 1908 A, 200.
Diener, C. 1912 A, 216.
Frech and Geinitz 1903 A, 36.
Gidley, J. W. 1904 A, 268.
1920 A, 656, 673.
Haug, E. 1911 A, 1887.
Hay, O. P. 1912 D, 595, 607.
1914 A, 212, 225.
Matthew, W. D. 1907 A, 217.
1915 A, 241, 242.
1915 K, 403.
1924 C, 177, 178.
Merriam, J. C. 1915 E, 227.
Osborn, H. F. 1909 D, 87.
1910 B, 440, 466, 470, 471, 488, 549.
Palmer, T. S. 1904 A, 438, 930.
Peterson, O. A. 1912 B, 167.
1914 C, 115.
Thorpe, M. R. 1924 C, 393.
Trouessart, E. L. 1905 A, 658 (Tayassus).
Zittel and Schlosser 1911 A, 474.
1923 A, 561, 680, 681.

Mylohyus browni Gidley.

Gidley, J. W. 1920 A, 675.
Brown, B. 1908 A, 201, pl. xxiv (Mylohyus sp. a.).
Hay, O. P. 1924 D, 157, 251.
Simpson, G. G. 1928 H, 3, 16, fig. 11 (This species?).
Pleistocene (Middle); Arkansas: Pleistocene (Early?); Florida.

Mylohyus exortivus Gidley.

Gidley, J. W. 1920 A, 676, figs. 11-13.
1920 B, 283 ("peccaries").
Hay, O. P. 1920 B, 98, pl. lv, figs. 4-13.
1923 A, 491.
Pleistocene (Middle); Maryland.

Mylohyus nasutus (Leidy).

Hay, O. P. 1902 A, 659 (Tayassu).
Baker, F. C. 1920 A, 464.
Cope, E. D. 1867 F, 138 ("peccary").
Gidley, J. W. 1920 A, 674.
Hay, O. P. 1912 D, 607, text-figs. 42, 43.
1914 A, 226, pl. xxv, figs. 4-6; pl. xxvi, figs. 1, 2.
1920 B, 90, pl. iii, figs. 12, 13; 98, pl. iv, figs. 2, 3.
1923 A, 491.
Palacký, J. 1903 B, 324 ("nasutus").
Rhoads, S. N. 1903 A, 238.
Schlosser, M. 1902 H, 143.
Trouessart, E. L. 1905 A, 659 (Tayassus).
Pleistocene (Middle); Indiana, Virginia, New Jersey?, Tennessee.

Mylohyus obtusidens Hay.

Hay, O. P. 1920 B, 100, pl. iv, figs. 14, 15.
1923 A, 220, 348.
Pleistocene (Middle); Maryland.

Mylohyus pennsylvanicus (Leidy).

Hay, O. P. 1902 A, 659 (Tayassu).
Allen, G. M. 1926 A, 449.
Baker, F. C. 1920 A, 208, 213, 395.
Gidley, J. W. 1920 A, 674.
Haug, E. 1911 A, 1886.
Hay, O. P. 1923 A, 491.
Holland, W. J. 1908 A, 231 (Tayassu).
1912 B, 750 (Dicotyles).
Osborn, H. F. 1910 B, 471 (Tayassu).
Peterson, O. A. 1926 A, 256, pl. xviii, figs. 1, 2.
Rhoads, S. N. 1903 A, 238.
Schlosser, M. 1902 H, 143.
Trouessart, E. L. 1905 A, 658 (Syn. of Platygonus vetus).
Pleistocene (Middle); Pennsylvania.

Mylohyus? temerarius Hay.

Hay, O. P. 1914 A, 26, 227, pl. xxi, figs. 1, 2.
Baker, F. C. 1920 A, 464.
Hay, O. P. 1920 B, 85.
1924 D, 148, 158, 298.
Pleistocene (Aftonian); Iowa.

Mylohyus sp. indet.

Brown, B. 1908 A, 200, 201, pl. xxiv ("M. sp. b. c."). Pleistocene (Middle); Arkansas. (M. sp. *a=M. browni* Gidley).
Gidley, J. W. 1915 C, 12, fig. 13. Pleistocene; Maryland.
1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1914 A, 32, 226, pl. xxvi, figs. 3-5; pl. xxvii, fig. 1. Pleistocene; Arkansas.
1921 A, 621. Pleistocene; Washington.
1923 A, 9. Pleistocene (Nebraskan?); Arizona.
1924 D, 157, 251. Pleistocene; Arkansas.
1927 D, 309. Pleistocene; California, Florida, Nebraska.
Merriam, J. C. 1915 E, 226, fig. 40. Pleistocene? (Etchegoin); California.
1917 A, 425 (This genus?). Pleistocene? (Etchegoin); California.
Sellards, E. H. 1916 C, 149, 158, pl. xxx, fig. 2 ("peccary." This genus?). Pleistocene, Florida

TAYASSU Fischer. Type *T. pecari* Fischer.

Unless otherwise indicated the authors as quoted below, use the generic name *Dicotyles.*

Hay, O. P. 1902 A, 659 (Tayassu).
Abel, O. 1906 A, 58.
1912 F, 237, fig. 168.
Adams, C. C. 1905 A, 54 ("peccary").

Allen, J. A. 1892 A.
1902 A, 164 (Tayassu).
Ameghino, F. 1885 A, 203 (Dicotyle).
1889 A, 1010.
1905 A.
Arldt, T. 1907 D, 259.
Barbour, E. H. 1925 B, 32 (Dicotyles=Tagassu).
Behlen, H. 1906 A, 190.
Boas, J. E. V. 1884 B, 395.
Boule and Thevenin 1920 A, 163.
Bronn, H. G. 1849 A. 705.
Brown, B. 1908 A, 201 (Tayassu).
Burmeister, H. 1879 B, 471.
Cope, E. D. 1895 G, 596 (Dicotyles).
Doran, A. H. G. 1878 A, 423, pl. lxi (Dicotyles).
Elliot, D. G. 1901 A, 33, pl. xi.
Fischer, J. B. 1829 A, 419 (Dicotyles).
Gidley, J. W 1904 A, 267 (Tayassu).
1920 A, 655 (Tayassu).
Giebel, C. G. 1855 A, 71.
1883 A, pl. xliii.
Gill, T. 1902 B, 38 (Tayassu).
Gregory, W. K. 1920 A, 191, fig. 165.
Hay, O. P. 1912 D, 595, 596 (Tayassu).
1914 A, 212, 213, pl. xix (T. angulatus).
Heilprin, A. 1887 A, 374.
Hensel, R. 1879 A, 535.
Hoever, R. 1911 A, 90.
Kampfen, P. N. 1905 A, 584, fig. 68 (Dicotyles).
Knottnerus-Meyer, T. 1907 A, 6, pl. 1, fig. 1 (Tayassus).
Leche, W. 1887 A.
1912 A, 82.
Leunis and Ludwig 1883 A, 241 (Dicotyles).
Leuthardt, F. 1891 A, 136 (Dicotyles).
Lull, R. S. 1904 C, 7.
Matthew, W. D. 1907 A, 217.
1924 C, 177, 178 (Dicotyles).
Merriam, C. H. 1892 A, 60.
Miller, G. S. 1912 B, 384 (Tayassu).
1924 C, 482.
Osborn, H. F. 1907 G, 197, fig. 99.
1910 B, 472, 549.
1910 D, 466, 470, 488 (Mylohyus).
Owen, R. 1866 A, 458, 470 (Peccarí).
1868 A, 877.
Palmer, T. S. 1904 A, 666, 930 (Tayassu); 955 (Tagassu).
Pearson, H. S. 1923 A, 65.
Peterson, O. A. 1912 B, 167 (Tayassu).
Pictet, F. J. 1853 A, 326 (Dicotyles).
Retzius, A. 1849 A, 659.
Schlosser, M. 1902 K, 466, 469, 472.
Schmidt, O. 1886 A, 130, fig. 12 ("peccary").
Scott, W. B. 1913 A, 236, 364 (Tagassu).
Strecker, C. 1887 A, 311 (Dicotyles).
Thomas, O. 1902 A, 153 (Tayassu).
1902 B, 197 (Tayassu).
Thomas and Miller 1905 A, 463 (Tagassu rejected).
Trouessart, E. L. 1905 A, 658 (Tayassus).
Turner, H. N. 1850 B, 105 ("peccary").
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, I, 493 (Dicotyles).
Weber, M. 1904 A, 629, 652, 653, fig. 453.
Weber and Abel 1928 A, 520, 553, fig. 348 (Dicotyles).
Weber and Burlet 1927 A, 78, fig. 190 (Dicotyles).
Williston, S. W. 1902 L, 918.
Wright, R. R. 1883 A, 267 (Dicotyles).
Zittel and Schlosser 1911 A, 473.
1923 A, 561, 682 (Dicotyles).

Tayassu hesperius (Marsh).

Hay, O. P. 1902 A, 659.
Trouessart, R. L. 1905 A, 659 (Tayassus).
"Pliocene"; Oregon.

Tayassu lenis (Leidy).

Hay, O. P. 1902 A, 659 (Tayassu tajacu, in part).
Baker, F. C. 1920 A, 473.
Cope, E. D. 1867 F, 138 ("peccary").
Hay, O. P. 1912 D, 596, pl. iv, fig. 2.
1914 A, 38, 213
1917 E, 45, 48, pl. iii, figs. 2, 3.
1918 C, 346 (Tayassu).
1919 D, 367 (Tagassu).
1923 A, 496 (Tagassu).
1924 B, 261 ("peccary").
1924 D, 159, 287 (Tagassu, Dicotyles).
1927 D, 274.
Holmes, F. S. 1859 A, 184 ("peccary").
1860 A, iv, vi, vii ("peccary").
Loomis, F. B. 1924 C, 506.
Whitney, J. P. 1866 A, 162 ("peccary").
Wisconsin, Iowa, Illinois?, Indiana, Kentucky?, Maryland, South Carolina, Florida.

Tayassu sp. indet.

Hay, O. P. 1902 A, 660.
Cope, E. D. 1867 C, 152 (Cynorca protervus, in part). Miocene (Calvert); Maryland.
1868 I, 185 (Dicotyles, canine).
Freudenberg, W. 1921 A, 139 (Dicotyles), Pleistocene; Mexico.
1922 A, 5 (Dicotyles).
Gidley, J. W. 1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1923 A, 222, 363 (Tagassu). Pleistocene; Maryland, Florida.
1927 D, 274. Pleistocene; Florida.
MacCurdy, G. G. 1917 A, 267 ("peccary"). (This genus?). Pleistocene; Florida.
Merriam, J. C. 1917 A, 425 (This genus?). Pleistocene? (Etchegoin); California.
Sellards, E. H. 1916 E, 16 ("peccary, indet."). Pleistocene; Florida.

PECARI Reichenbach. Type *Sus torquatus* (Cuvier).

Reichenbach, H. G. L. 1835, Bildergallerie der Thierwelt, etc., 2te Aufl., Heft vi, pl. xxi, fig. 2.
Miller, G. S. 1912 B, 383.
1924 C, 481.
Palmer, T. S. 1904 A, 518, 930.

Pecari sp. indet.

Gidley, J. W. 1927 E, 274. Pleistocene; Florida.

THINOTHERIUM Cope. Type *T. annulatum* Cope. Not of March 1872.

Hay, O. P. 1902 A, 661.
Palacký, J. 1903 B, 312.
Palmer, T. S. 1904 A, 674, 926.
Trouessart, E. L. 1905 A, 658.

Thinotherium annulatum Cope.

Hay, O. P. 1902 A, 661.
Clark and Miller 1912 A, 167, 168.
Miocene (Yorktown); Virginia.

Suborder AGRIOCHŒRIFORMES, new name.

Osborn, H. F. 1910 B, 549 (Oreodonta).

Superfamily AGRIOCHŒROIDÆ, new name.

Gill, T. 1872 B, 10 (Oreodontoidea).

AGRIOCHŒRIDÆ Leidy.

Leidy, J. 1869 A, 131.
Hay, O. P. 1902 A, 662.
Abel, O. 1913 B, 729, 741 (Oreodontidæ).
  1914 A, 121, 165 (Oreodontidæ).
Arldt, T. 1907 D, 669 (Oreodontidæ).
  1912 A, 700, 746.
Dollo, L. 1889 D, 681 (Creodontidæ, error for Oreodontidæ).
Douglass, E. 1901 B, 257 (Oreodontidæ).
Loomis, F. B. 1925 E, 592 ("agriochœrids").
Matthew, W. D. 1908 A, 559, 560.
  1909 C, 113, 115, 117, 118.
  1924 C, 181.
O'Harra, C. C. 1920 A, 123 (Oreodontidæ).
Osborn, H. F. 1909 D, 63.
Peterson, O. A. 1906 C, 30.
Scott, W. B. 1913 A, 250, 361, 383, 675.
Weber and Abel 1928 A, 609 (Oreodontidæ).
Winge, H. 1906 A, 70 (Oreodontini).
Zittel and Schlosser 1911 A, 482 (Oreodontidæ).
  1923 A, 571, 602 (Oreodontidæ).

AGRIOCHŒRINÆ Gill.

Gill, T. 1872 B, 10.
Hay, O. P. 1902 A, 662.
Abel, O. 1913 B, 729, 741.
  1914 A, 165.
  1919 A, 805.
Arldt, T. 1907 D, 256.
Kampfen, P. N. 1905 A, 593.
Matthew, W. D. 1901 B, 371, 395.
Osborn, H. F. 1893 M, 96 (Artionychia).
Trouessart, E. L. 1905 A, 666.
Weber and Abel 1928 A, 609.
Winge, H. 1906 A, 134 (Agriochœri).
Zittel and Schlosser 1911 A, 482.
  1923 A, 571.

PROTAGRICHŒRUS Scott. Type *P. annectens* Scott.

Hay, O. P. 1902 A, 662.
Loomis, F. B. 1924 B, 15.
Matthew, W. D. 1909 C, 103.
  1910 H, 474.
Osborn, H. F. 1905 I, 101.
  1910 B, 170, 549.
Palmer, T. S. 1904 A, 577, 912.
Peterson, O. A. 1919 A, 86.
Scott, W. B. 1913 A, 383, 385.
Stehlin, H. G. 1908 A, 835.
Thorpe, M. R. 1925 A, 70, 74, 82.
Weber, M. 1904 A, 664.
Weber and Abel 1928 A, 609.
Zittel and Schlosser 1911 A, 482.
  1923 A, 571, 669.

Protagrichœrus annectens Scott.

Hay, O. P. 1902 A, 662.
Matthew, W. D. 1909 C, 100.
Peterson, O. A. 1919 A, 76, 86, pl. xl, figs. 19-27.
Trouessart, E. L. 1905 A, 666.
Upper Eocene (Uinta); Utah.

AGRIOCHŒRUS Leidy. Type *A. antiquus* Leidy.

Hay, O. P. 1902 A, 662.
Abel, O. 1914 A, 167.
Beddard, F. E. 1902 A, 211, 331.
Douglass, E. 1905 A, 211.
Flower, W. H. 1873 B, 102.
Gaudry, A. 1891 C, 146.
Giebel, C. G. 1883 A, 133.
Gregory, W. K. 1920 A, 188, fig. 155.
Haug, E. 1911 A, 1528, 1529, 1705.
Heilprin, A. 1887 A, 383.
Kampfen, P. N. 1905 A, 591.
Koken, E. 1901 B, 224 (Artionyx).
Lambe, L. M. 1905 A, 370A.
Lobley, J. L. 1908 A, 213 (Agriochaerus).
Loomis, F. B. 1925 E, 591, figs. 5, 6.
Lucas, F. A. 1901 F, 482.
Lull, R. S. 1917 B, 338.
Major, C. J. F. 1880 A, 33.
Matthew, W. D. 1901 B, 370.
  1909 C, 111.
  1910 H, 474.
  1911 C, 163.
  1915 K, 420.
  1917 A, 573.
  1924 E, 748.
Merriam and Sinclair 1907 A, 193.
Moodie, R. L. 1913 A, 186.
O'Harra, C. C. 1910 A, 109, 145.
Osborn, H. F. 1893 M, 95 (Artionyx).
  1905 H, 201.
  1909 D, 68.
  1910 B, 214, 220, 222, 231, 549.
  1912 G, 246.
Palmer, T. S. 1904 A, 84, 911.

Peterson, O. A. 1919 A, 84.
Schlosser, M. 1898 F, 127.
1899 H, 550.
Scott, W. B. 1896 D, 50.
1913 A, 252 (fig. 133), 384, 675.
Sinclair, W. J. 1924 A, 126.
Stehlin, H. G. 1908 A, 835.
Thorpe, M. R. 1921 E, 111.
1923 E, 243.
1924 B, 219.
1925 A, 72, 82.
Trouessart, E. L. 1905 A, 666.
Wallace, A. R. 1876 A, I, 138.
Weber, M. 1904 A, 664.
Weber and Abel 1928 A, 608, 609.
Winge, H. 1906 A, 132.
Zittel and Schlosser 1911 A, 482.
1923 A, 571, 671, 672.

Agriochœrus antiquus Leidy.

Hay, O. P. 1902 A, 663.
Cook, H. J. 1912 D, 37.
Douglass, E. 1907 A, 822 (This species?).
Gervais, P. 1859 A, 360.
Lambe, L. M. 1905 D, 367A (This species?).
1908 A, 10, 28, pl. ii, figs. 16, 17.
Major, C. J. F. 1880 A, 33.
Matthew, W. D. 1901 B, 369.
1909 C, 106.
O'Harra, C. C. 1920 A, 153, pl. xli.
Scott, W. B. 1913 A, 384, fig. 206.
Sinclair, W. J. 1924 A, 102, 126.
Thorpe, M. R. 1921 E, 112.
1924 B, 219.
Middle Oligocene (Brule); Nebraska, South Dakota.

Agriochœrus antiquus dakotensis Thorpe.

Thorpe, M. R. 1921 E, 112, fig. 1.
Middle Oligocene (Brule); South Dakota.

Agriochœrus auritus Leidy.

Hay, O. P. 1902 A, 663.
Thorpe, M. R. 1921 E, 118.
1924 B, 219.
Upper Oligocene (Protoceras beds); South Dakota.

Agriochœrus bullatus Thorpe.

Thorpe, M. R. 1921 E, 115, figs. 2-4.
Upper Oligocene (Upper John Day); Oregon.

Agriochœrus ferox (Cope).

Hay, O. P. 1902 A, 663.
Cope and Matthew 1915 A, pl. cxiii (Coloreodon; Agriochœrus).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187, 191, 192.
Thorpe, M. R. 1921 E, 117.
Upper Oligocene (John Day); Oregon.

Agriochœrus gaudryi (Osborn and Wortman).

Hay, O. P. 1902 A, 663.
Cook, H. J. 1912 D, 39.
Matthew, W. D. 1909 C, 109.
O'Harra, C. C. 1920 A, 154.
Upper Oligocene (Brule); South Dakota.

Agriochœrus guyotianus Cope.

Hay, O. P. 1902 A, 663.
Cope and Matthew 1915 A, pl. cxii; pl. cxiii, figs. 1, 2 (A. guiotianus; A. guyotianus).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187, 188, 190.
Peterson, O. A. 1928 B, 142.
Thorpe, M. R. 1921 E, 118.
Upper Oligocene (John Day); Oregon.

Agriochœrus latifrons Leidy.

Hay, O. P. 1902 A, 663.
Beddard, F. E. 1902 A, 332, fig. 178.
Cook, H. J. 1912 D, 37.
Giebel, C. G. 1883 A, pl. xliv.
Loomis, F. B. 1924 B, 3, figs. 2, 3.
Matthew, W. D. 1909 C, 106.
O'Harra, C. C. 1910 A, 110, fig. 16.
1920 A, 124, 152, fig. 62.
Peterson, O. A. 1914 E, 183.
1928 B, 150, 158.
Scott, W. B. 1913 A, 383 (fig. 205), 385 (fig. 207).
Sinclair, W. J. 1924 A, 126.
Thorpe, M. R. 1921 E, 117.
Weber and Abel 1928 A, 609, fig. 402.
Zittel and Schlosser 1911 A, 482, fig. 672.
1923 A, 571, fig. 713.
Middle Oligocene (Brule); South Dakota.

Agriochœrus macrocephalus (Cope).

Hay, O. P. 1902 A, 663.
Cope and Matthew 1915 A, pl. cxiii, figs. 3, 4 (Coloreodon, Agriochœrus).
Matthew, W. D. 1909 C, 109.
Thorpe, M. R. 1921 E, 117.
Upper Oligocene (John Day); Oregon.

Agriochœrus major Leidy.

Hay, O. P. 1902 A, 664.
Abel, O. 1914 A, 167, fig. 121.
Cook, H. J. 1912 D, 39.
Matthew, W. D. 1909 C, 109.
O'Harra, C. C. 1920 A, 154.
Thorpe, M. R. 1924 B, 219.
Weber, M. 1904 A, 663, fig. 477.
Weber and Abel 1928 A, 609, fig. 403.
Upper Oligocene (Brule); South Dakota, Nebraska, Wyoming.

Agriochœrus maximus Douglass.

Douglass, E. 1901 B, 242, 267, pl. ix, fig. 4.
1903 A, 150.
1907 A, 822 (This genus?).
Matthew, W. D. 1909 C, 104.
Thorpe, M. R. 1921 E, 118.
Trouessart, E. L. 1905 A, 666.
Lower Oligocene (Pipestone Creek); Montana.

Agriochœrus migrans (Marsh).

Hay, O. P. 1902 A, 664.
Cook, H. J. 1912 D, 39.
Matthew, W. D. 1909 C, 109.

O'Harra, C. C. 1920 A, 154.
Thorpe, M. R. 1921 E, 114.
Upper Oligocene (Brule); South Dakota or Nebraska.

Agriochœrus minimus Douglass.

Douglass, E. 1901 B, 242, 268.
1903 A, 149.
1907 A, 822.
Matthew, W. D. 1909 C, 104.
Thorpe, M. R. 1921 E, 118.
Lower Oligocene (Pipestone Creek); Montana.

Agriochœrus ryderanus Cope.

Hay, O. P. 1902 A, 664.
Cope and Matthew 1915 A, pl. cxi, fig. 4 (Coloreodon, Agriochœrus).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187.
Thorpe, M. R. 1921 E, 117.
Upper Oligocene (John Day); Oregon.

Agriochœrus trifrons Cope.

Hay, O. P. 1902 A, 664.
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187.
Thorpe, M. R. 1921 E, 117.
Upper Oligocene (John Day); Oregon.

Agriochœrus sp. indet.

Cook, H. J. 1912 D, 35. Lower Oligocene (Chadron); South Dakota or Nebraska.
Matthew, W. D. 1909 C, 104. Lower Oligocene (Chadron); South Dakota or Nebraska.
Merriam and Sinclair 1907 A, 188, 190. Upper Oligocene (John Day); Oregon.

PROTOREODONTINÆ Scott.

Scott, W. B. 1890 B, 320, 361.
Hay, O. P. 1902 A, 664.
Kampfen, P. N. 1905 A, 593.
Matthew, W. D. 1901 B, 395.
Palacký, J. 1903 B, 306, 307 ("protoreodontiden").
Palmer, T. S. 1904 A, 766, 911 (Protoredontidæ, Protoreodontinæ).
Scott, W. B. 1890 A, 503 (Protoreodontidæ).
Trouessart, E. L. 1905 A, 666.

PROTOREODON Scott and Osborn. Type *P. parvus* Scott and Osborn.

Hay, O. P. 1902 A, 664 (Protoreodon, Eomeryx).
Beddard, F. E. 1902 A, 332.
Haug, E. 1911 A, 1528.
Kampfen, P. N. 1905 A, 591.
Loomis, F. B. 1924 B, 15 (Oreodontoides, Eomeryx).
Matthew, W. D. 1909 C, 103.
1910 H, 474.
1924 E, 748.
Osborn, H. F. 1905 I, 101.
1910 B, 170, 549.
Palmer, T. S. 1904 A, 584, 912 (Protoreodon); 363, 911 (Eomeryx).
Peterson, O. A. 1919 A, 86.
Schlosser, M. 1899 H, 550.
1901 D, 462.
1903 A, 290 (Eomeryx); 291 (Protoreodon).
1904 C, 95.
Scott, W. B. 1913 A, 267, 380.
Stehlin, H. G. 1908 A, 835.
Thorpe, M. R. 1925 A, 70.
Trouessart, E. L. 1905 A, 666.
Weber, M. 1904 A, 663, 664.
Weber and Abel 1928 A, 609.
Winge, H. 1906 A, 132.
Woodward, A. S. 1898 D, 330.
Zittel and Schlosser 1911 A, 482.
1923 A, 572, 669 (Protoreodon, Eomeryx).

Protoreodon medius Peterson.

Peterson, O. A. 1919 A, 82, pl. xl, figs. 1-16; text-fig. 13.
Loomis, F. B. 1924 B, 6, fig. 4.
Upper Eocene (Uinta); Utah.

Protoreodon minor Scott.

Hay, O. P. 1902 A, 664.
Matthew, W. D. 1909 C, 100.
Trouessart, E. L. 1905 A, 666.
Upper Eocene (Uinta); Utah.

Protoreodon paradoxicus Scott.

Hay, O. P. 1902 A, 664.
Matthew, W. D. 1909 C, 100.
Trouessart, E. L. 1905 A, 666.
Upper Eocene (Uinta); Utah.

Protoreodon parvus Scott and Osborn.

Hay, O. P. 1902 A, 664.
Granger, W. 1910 A, 240 (This species?).
Matthew, W. D. 1909 C, 100.
Scott, W. B. 1913 A, 380, fig. 203.
Trouessart, E. L. 1905 A, 666.
Upper Eocene (Uinta); Utah.

Protoreodon pumilis (Marsh).

Hay, O. P. 1902 A, 665 (Eomeryx).
Matthew, W. D. 1909 C, 100.
Trouessart, E. L. 1905 A, 666.
Upper Eocene (Uinta); Utah.

Protoreodon sp. indet.

Hay, O. P. 1902 A, 664. Upper Eocene (Uinta); Utah.

HYOMERYX Marsh. Type *H. breviceps* Marsh.

Hay, O. P. 1902 A, 665.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 103.
Palmer, T. S. 1904 A, 338, 911.
Stehlin, H. G. 1908 A, 835.
Weber and Abel 1928 A, 609.

Zittel and Schlosser 1911 A, 482 (Syn. of Protoreodon).
1923 A, 572 (Syn. of Protoreodon).

Hyomeryx breviceps Marsh.

Hay, O. P. 1902 A, 665.
Matthew, W. D. 1909 C, 100.
Upper Eocene (Uinta); Utah.

MERYCOIDODONTINÆ.

Unless otherwise indicated the authors quoted employ the name Oreodontidæ.

Hay, O. P. 1902 A, 665 (Merycoidodontinæ).
Abel, O. 1913 B, 729, 742 (Oreodontinæ).
1914 A, 165 (Oreodontinæ).
1919 A, 805 (Oreodontinæ, Oreodontidæ).
1920 A, 436 ("oreodontiden").
Ameghino, F. 1889 A, 1020.
Arldt, T. 1907 D, 256 (Oreodontinæ).
Beddard, F. E. 1902 A, 330.
Behlen, H. 1907 A, 278 ("oreodontiden").
Case, E. C. 1899 B, 172.
Cope, E. D. 1880 U, 152 ("oréodontides").
Flower, W. H. 1873 B, 102.
Giebel, C. G. 1883 A, 132 ("oreodontiden").
Gregory, W. K. 1920 A, 188.
Hoernes, R. 1886 A, 674.
Howes, G. B. 1902 A, 523.
Kampfen, P. N. 1905 A, 591 (Oreodontinæ).
Koken, E. 1893 B, 481 ("oreodontiden").
Loomis, F. B. 1920 A, 281, 286 (Oreodontidæ, Oreodontinæ).
1924 A, 369 (Oreodontidæ).
1924 B, 1, 5, 14 (Oreodontidæ).
1925 E, 585, 594 ("oreodonts").
McClung, C. E. 1906 A, 70 ("oreodons").
Matthew, W. D. 1901 B, 371, 395 (Oreodontinæ).
1910 H, 475 ("oreodons").
1911 C, 163 ("oreodonts").
1915 A, 254 ("oreodonts").
1915 K, 459 ("oreodonts").
Matthew, W. D. 1924 E, 745.
1928 B, 968, 981, fig. 16 ("oreodonts").
Matthew and Cook 1909 A, 391 (Oreodontinæ).
Merriam, J. C. 1901 B, 589 ("oreodons").
O'Harra, C. C. 1910 A, 108.
Osborn, H. F. 1905 H, 219.
1905 I, 101.
1909 D, 57, 132.
1910 B, 625.
Palacký, J. 1903 B, 306, 310 ("oreodontiden").
Peterson, O. A. 1928 B, 166 ("oreodonts").
Schlosser, M. 1902 J, 257 ("oreodontiden").
1904 C, 95 ("oreodontiden").
1911 A, 165 ("oreodontiden").
Schwarz, E. 1924 A, 420 ("oreodonts").
Scott, W. B. 1913 A, 361, 372.
Stehlen, H. G. 1908 A, 835 ("oreodontiden").
1910 A, 1088 ("oreodontiden").
Thorpe, M. R. 1921 D, 94.
1923 E, 239 (Merycoidodontidæ).
1925 A, 69 ("oreodonts").
Trouessart, E. L. 1905 A, 667.
Weber, M. 1904 A, 662.
Weber and Abel 1928 A, 426, 608, 609.
Winge, H. 1906 A, 70, 134 (Oreodontes).
Woodward, A. S. 1898 B, 354.
1923 C, 39.
Zittel, K. A. 1897 A, 126 ("oreodontiden").
Zittel and Schlosser 1911 A, 482 (Oreodontidæ, Oreodontinæ).
1923 A, 572, 669, 670 (Oreodontinæ).

BATHYGENYS Douglass. Type *B. alpha* Douglass.

Douglass, E. 1901 B, 256.
Loomis, F. B. 1924 B, 15.
Matthew, W. D. 1909 C, 111.
1910 H, 474.
1915 K, 420.
Zittel and Schlosser 1911 A, 482.
1923 A, 572.

Bathygenys alpha Douglass.

Douglass, E. 1901 B, 258, pl. ix, figs. 7, 8.
1907 A, 822.
Matthew, W. D. 1903 B, 220, fig. 14.
1909 C, 104.
Trouessart, E. L. 1905 A, 669.
Lower Oligocene (Pipestone Creek); Montana.

MERYCOIDODON Leidy. Type *M. culbertsonii* Leidy.

Hay, O. P. 1902 A, 665.
Abel, O. 1926 B, 453 (Oreodon).
Beddard, F. E. 1902 A, 330 (Oreodon).
Black, D. 1920 A, 271-314, figs. 1-48 (Oreodon).
Dall and Harris 1892 A, 289 (Oreodon).
Douglass, E. 1906 A, 565.
1907 B, 86.
1909 C, 231.
Fairchild, H. L. 1894 A, 208 (Oreodon).
Frech, F. 1906 A, 492 (Oreodon).
Gaudry, A. 1891 C, 146 (Oreodon).
1896 A, 87, 183, figs. 61, 177 (Oreodon).
Giebel, C. G. 1883 A, 132 (Oreodon).
Gregory, W. K. 1912 F, 286 (Oreodon).
1920 A, 188, fig. 156 (Oreodon).
Grinnell, G. B. 1923 A, 334 (Oreodon).
Haug, E. 1911 A, 1528, 1705 (Oreodon).
Hayden, F. V. 1871 A, 105 ("ruminants").
Heilprin, A. 1887 A, 382 (Oreodon).
Hoernes, R. 1886 A, 674 (Oreodon).
Kampfen, P. N. 1905 A, 591 (Oreodon).
Kingsley, J. S. 1925 A, 213, fig. 227 (Oreodon).
Loomis, F. B. 1924 A, 369.
1924 B, 7, 14, 15.
1925 A, 244.
1925 B, 226 ("oreodons").
1925 E, 589, figs. 3, 4, 6.
1926 A, 103.
1928 A, 142.
Matthew, W. D. 1901 B, 369, 395 (Oreodon).
1903 B, 221 (Oreodon).
1910 H, 474 (Oreodon).
1915 K, 420 (Oreodon).
1917 A, 573 (Oreodon).

Matthew, W. D. 1924 E, 748 (Oreodon).
1928 B, 964 (Oreodon).
Merriam, J. C. 1915 F, 259 ("oreodon").
O'Harra, C. C. 1920 A, 124 (Oreodon).
Osborn, H. F. 1909 D, 23, 67 (Oreodon).
1910 B, 218 (Merycoidodon); 625, fig. 104 (Oreodon).
Palmer, T. S. 1904 A, 412, 912.
Peterson, O. A. 1914 E, 181.
1919 A, 84, 87.
1923 C, 98.
1928 B.
Rogers, A. F. 1924 A, 545 (Oreodon).
Schlosser, M. 1899 H, 547 (Oreodon).
1901 A, 492 (Oreodon).
1901 D, 462 (Oreodon).
1903 A, 290 (Oreodon).
1904 C, 96 (Oreodon).
Schuchert and Levene 1927 A, 335, fig.
Scott, W. B. 1913 A, 252, 258, 379, fig. 133.
Seeley, H. G. 1878 A, 223 (Oreodon).
Sinclair, W. J. 1921 A, 458, 462 (Oreodon).
1924 A, 127 (Oreodon).
Stehlin, H. G. 1908 A, 835 (Oreodon).
Steinmann, G. 1907 A, 496 (Oreodon).
Thorpe, M. R. 1921 A, 223 (Oreodon).
1921 G, 334.
1923 C, 226.
1923 E, 239.
1924 A, 318.
1924 D, 122 (Oreodon, Merycoidodon).
1925 A, 71, 81, 82.
Trouessart, E. L. 1905 A, 667.
Weber, M. 1904 A, 663 (Oreodon).
Weber and Abel 1928 A, 609.
Williston, S. W. 1902 L, 918 (Oreodon).
Winge, H. 1906 A, 132 (Oreodon).
Zittel and Schlosser 1911 A, 483 (Oreodon).
1923 A, 558, 572, fig. 691 (Oreodon).

Merycoidodon affinis (Leidy).

Hay, O. P. 1902 A, 665.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 104 (Oreodon).
O'Harra, C. C. 1920 A, 150 (Oreodon).
Thorpe, M. R. 1921 G, 339, 341.
Oligocene (Chadron); Nebraska, Colorado.

Merycoidodon culbertsonii Leidy.

Hay, O. P. 1902 A, 666.
Abel, O. 1926 B, 321, 344, figs. 214, 228 (Oreodon).
Barbour and Cook 1917 A, 165, 171, figs. 4, 6 (Oreodon, Merycoidodon).
Black, D. 1920 A, 272 (Oreodon).
Cook, H. J. 1912 D, 37 (M. culbertsoni).
Darton, N. H. 1901 A, 543 (Oreodon culbertsoni).
1905 A, 45, 173 (Oreodon).
Darton and Siebenthal 1910 A, 11 (M. culbertsoni).
Douglass, E. 1901 B, 253 (Oreodon culbertsoni?).
1907 A, 822 (This species?).
1909 C, 283.
Gervais, P. 1859 A, 360 (Oreodon).
Giebel, C. G. 1883 A, pl. xliv (Oreodon).
Gregory, W. K. 1920 A, 188, fig. 156 (Oreodon).
Hoernes, R. 1886 A, 675, fig. 649 (Oreodon culbertsoni).
Kampfen, P. N. 1905 A, 592 (Oreodon).
Lambe, L. M. 1905 D, 367 A (Oreodon).
1908 A, 10, 29, pl. ii, figs. 18-26.
Loomis, F. B. 1924 B, 2, figs. 1-4.
1925 E, 586, figs. 1, 3.
Matthew, W. D. 1901 B, 358 (Oreodon).
1909 C, 106 (O. culbertsonii, O. periculorum).
1910 H, 474 (Oreodon).
Merrill, G. P. 1907 A, 50 (Oreodon).
Moodie, R. L. 1915 I, 174, fig. 14.
1922 C, 365 (Oreodon).
O'Harra, C. C. 1910 A, 109, 111, pl. xliii, fig. 2 (Oreodon).
1920 A, 128, pls. xii, xxiv, xl (Oreodon culbertsoni).
Osborn, H. F. 1904 F, 12, 34 (Oreodon).
1910 B, 218, fig. 106.
Peterson, O. A. 1914 E, 167.
1923 C, 102.
1928 B, 133, 134.
Scott, W. B. 1913 A, 259, 378, 382, figs. 136, 202, 204.
Sinclair, W. J. 1924 A, 101, 102, 127 (Oreodon).
Stromer, E. 1912 A, 199, fig. 182 (M. culbertsoni).
Thorpe, M. R. 1921 G, 334, 335, 341.
1923 C, 225, fig. 1.
1923 D, 91, 98, figs. 5, 6.
Trouessart, E. L. 1905 A, 667.
Weber, M. 1904 A, 663, fig. 476 (Oreodon).
Weber and Abel 1928 A, 612, fig. 408.
Zittel and Schlosser 1911 A, 483, figs. 673, 674.
1923 A, 572, figs. 714, 715 (Oreodon).
Middle Oligocene (Brule), Montana, Colorado, Nebraska, South Dakota, Wyoming.

Merycoidodon culbertsonii periculorum (Cope).

Cope, E. D. 1884 M, 511, 513 (Oreodon).
Hay, O. P. 1902 A, 666 (M. culbertsonii, part).
Sinclair, W. J. 1924 A, 101, 102, 128 (Oreodon).
Thorpe, M. R. 1921 F, 337, 341.
Wanless, H. R. 1923 A, 220, pl. iii, fig. 1 (Oreodon).
Oligocene (Middle); Colorado, Nebraska. Wyoming.

Merycoidodon gracilis Leidy.

Hay, O. P. 1902 A, 666.
Abel, O. 1919 A, 806 (Oreodon).
Cook, H. J. 1912 D, 37.
Darton, N. H. 1905 A, 173 (Oreodon).
Douglass, E. 1901 B, 260 (Oreodon).
Gervais, P. 1859 A, 360 (Oreodon).
Gilmore, C. W. 1906 C, 513, pl. xii.
Matthew, W. D. 1901 B, 358 (Oreodon).
1909 C, 106 (Oreodon coloradensis, O. gracilis).
Merrill, G. P. 1907 A, 50 (Oreodon).
Moodie, R. L. 1922 C, 365 (Oreodon).
O'Harra, C. C. 1910 A, 109, 111, pl. xliii (Oreodon).
1920 A, 128, 153 (Oreodon); pls. xxi, xxxix (Merycoidodon).

Peterson, O. A. 1914 E, 204.
Sinclair, W. J. 1924 A, 102, 128 (Oreodon).
Thorpe, M. R. 1921 G, 338, 341.
1923 D, 91, figs. 1, 2.
1925 A, pls. vi, vii.
Oligocene (Lower Brule); Colorado, Wyoming, South Dakota, Nebraska.

Merycoidodon hybridus (Leidy).

Hay, O. P. 1902 A, 666.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 104 (Oreodon).
O'Harra, C. C. 1920 A, 150 (Oreodon).
Thorpe, M. R. 1924 B, 221 (Eporeodon).
Lower Oligocene (Chadron); South Dakota, Nebraska?. Upper Oligocene: Colorado.

Merycoidodon macrorhinus Douglass.

Douglass, E. 1903 A, 149, 163, fig. 8 (Oreodon).
1901 B, 243, 253, 264 (Oreodon robustum, preoccupied).
1907 A, 822.
Matthew, W. D. 1909 C, 106 (Oreodon).
Thorpe, M. R. 1921 G, 338, 341.
Middle Oligocene (White River); Montana.

Merycoidodon minor Cope.

Hay, O. P. 1902 A, 666.
A nomen nudum.

Merycoidodon platycephalus Thorpe.

Thorpe, M. R. 1921 F, 339, 341, figs. 1, 2.
Middle Oligocene (Brule); Nebraska.

Merycoidodon sp. indet.

Matthew, W. D. 1901 B, 369 (Oreodon). Oligocene (White River); Nebraska.
Wanless, H. R. 1923 A, 220 (Oreodon).

Paroreodon Thorpe. Type *P. marshi* Thorpe.

Thorpe, M. R. 1921 D, 109.
Loomis, F. B. 1924 B, 14, 15.
Thorpe, M. R. 1923 E, 241.

Paroreodon marshi Thorpe.

Thorpe, M. R. 1921 D, 109, figs. 14-16.
Loomis, F. B. 1924 B, 30.
Upper Oligocene (Middle John Day); Oregon.

Eucrotaphus Leidy. Type *E. jacksoni* Leidy.

Hay, O. P. 1902 A, 666.
Douglass, E. 1906 A, 566.
Loomis, F. B. 1924 A, 369.
Matthew, W. D. 1910 H, 474.
Thorpe, M. R. 1924 B, 219.
1924 D, 124.
Trouessart, E. L. 1905 A, 668.
Weber and Abel 1928 A, 609.
Zittel and Schlosser 1911 A, 483 (Syn. of Eporeodon).
1923 A, 572 (Syn. of Eporeodon).

Eucrotaphus dickinsonensis Douglass.

Douglass, E. 1907 C, 99, pl. xxii.
Loomis, F. B. 1924 B, 8, fig. 5 (Eporeodon).
Thorpe, M. R. 1924 B, 222 (Eporeodon).
Oligocene (Oreodon); North Dakota.

Eucrotaphus helenæ Douglass.

Douglass, E. 1901 B, 243, 253, 265.
1903 A, 149.
1907 A, 822.
Thorpe, M. R. 1924 B, 221 (Eporeodon).
Trouessart, E. L. 1905 A, 668.
Oligocene (White River); Montana.

Eucrotaphus jacksoni Leidy.

Hay, O. P. 1902 A, 666.
Cook, H. J. 1912 D, 39 (Eucrotophus).
Gervais, P. 1859 A 360 (E. jaksoni).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187 (E. occidentalis, in part).
Thorpe, M. R. 1924 B, 219.
Trouessart, E. L. 1905 A, 668.
Oligocene (Upper): (Brule); Nebraska.

Eucrotaphus montanus Douglass.

Douglass, E. 1907 C, 100, pl. xxiii.
1907 A, 822.
Loomis, F. B. 1924 B, 37 (Eporeodon).
Thorpe, M. R. 1924 B, 222 (Eporeodon).
Miocene (Lower) or Oligocene (Upper); Montana.

Oreodontoides Thorpe. Type *O. oregonensis* Thorpe.

Thorpe, M. R. 1921 D, 107.
1923 E, 241.
1924 A, 316.

Oreodontoides oregonensis Thorpe.

Thorpe, M. R. 1921 D, 107, figs. 9, 10.
Loomis, F. B. 1924 B, 14; 30, 31.
Thorpe, M. R. 1924 A, 316, figs. 1-3.
Upper Oligocene (Upper John Day); Oregon.

Eporeodon Marsh. Type *Oreodon occidentalis* Marsh.

Hay, O. P. 1902 A, 667.
Condon, T. 1902 A, 114, pls. viii-x, xii ("oreodons").
Condon, T. 1910 A, 96, pls. viii-x, xii ("oreodons").
Douglass, E. 1901 B, 266.

Douglass, E. 1906 A, 566.
Gregory, W. K. 1920 A, 189, fig. 158.
Haug, E. 1911 A, 1529, 1705.
Loomis, F. B. 1924 B, 9, 15, 36.
Matthew, W. D. 1901 B, 370, 373, 396, 398.
 1901, in Merriam, J. C. 1901 A, 296.
 1907 A, 172, 176.
 1909 C, 111, 119.
 1910 H, 474.
 1924 E, 748.
Merriam, J. C. 1901 A, 297 (Paracotylops).
 1915 E, 233.
Osborn, H. F. 1909 D, 64, 125.
 1910 B, 220, 231, 549.
 1912 G, 246.
Palmer, T. S. 1904 A, 268, 911.
Peterson, O. A. 1928 B, 141.
Rogers, A. F. 1924 A, 545.
Scott, W. B. 1913 A, 375, 379.
Sinclair, W. J. 1924 A, 127.
Sternberg, C. 1881 A, 541 ("Oreodon").
 1884 B, 676 ("Oreodon").
Thorpe, M. R. 1921 D, 93.
 1923 E, 241 (Oreodontoides).
 1924 B, 220.
 1924 D, 126.
 1925 A, 72, 82.
Trouessart, E. L. 1905 A, 668.
Wallace, A. R. 1876 A, I, 138.
Weber, M. 1904 A, 623.
Weber and Abel 1928 A, 610.
Winge, H. 1906 A, 133.
Zittel and Schlosser 1911 A, 483.
 1923 A, 572, 672.

Eporeodon bullatus (Leidy).

Hay, O. P. 1902 A, 665 (Merycoidodon).
Cook, H. J. 1912 D, 37 (Merycoidodon. This species?).
Kampfen, P. N. 1905 A, 592 (Oreodon).
Matthew, W. D. 1909 C, 104, 106 (Oreodon. This species?).
 1910 H, 474 (Oreodon).
O'Harra, C. C. 1920 A, 150 (Oreodon).
Peterson, O. A. 1928 B, 165 (Merycoidodon).
Sinclair, W. J. 1924 A, 102, 127.
Stromer, E. 1912 A, 199, fig. 183 (Merycoidodon bullatum).
Thorpe, M. R. 1921 D, 104.
 1924 B, 220.
Trouessart, E. L. 1905 A, 667 (Merycoidodon).
Wanless, H. R. 1923 A, 224 (Oreodon).
 Oligocene (Chadron and Lower Brule); Nebraska.

Eporeodon cedrensis Matthew.

Matthew, W. D. 1901 B, 396 (E. major cedrensis).
 1909 C, 109.
Thorpe, M. R. 1924 B, 224 (E. major cedrensis).
Trouessart, E. L. 1905 A, 668.
 Upper Oligocene (Brule); Colorado.

Eporeodon condoni Thorpe.

Thorpe, M. R. 1921 C, 104, figs. 6-8.
 Upper Oligocene (Middle John Day); Oregon.

Eporeodon leptacanthus (Cope).

Cope, E. D. 1884 M, 519 (Eucrotaphus jacksoni leptacanthus).
Hay, O. P. 1902 A, 666 (Eucrotaphus jacksoni, in part).
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187, 189, 190 (E. occidentalis leptacanthus).
Thorpe, M. R. 1921 D, 95, 97.
Trouessart, E. L. 1905 A, 668 (E. occidentalis leptacanthus).
 Oligocene (Upper); Oregon.

Eporeodon longifrons (Cope).

Hay, O. P. 1902 A, 667.
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187, 191, 192 (E. major longifrons).
Thorpe, M. R. 1921 D, 103.
Trouessart, E. L. 1905 A, 668.
 Oligocene (Upper); Oregon.

Eporeodon major (Leidy).

Hay, O. P. 1902 A, 667 (Eporeodon?).
Cook, H. J. 1912 D, 39 (This genus?).
Giebel, C. G. 1883 A, pl. xliv (Oreodon).
Kampfen, P. N. 1905 A, 592.
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187 (E. occidentalis, in part).
O'Harra, C. C. 1910 A, 109, pl. xliv.
 1920 A, 154, pl. xxii.
Sinclair, W. J. 1924 A, 127.
Thorpe, M. R. 1921 D, 103.
 1924 B, 223 (E. major major).
 1924 D, 129 (Eucrotaphus).
Trouessart, E. L. 1905 A, 668.
Wanless, H. R. 1923 A, 231.
 Upper Oligocene (Brule); North Dakota, Nebraska.

Eporeodon occidentalis Marsh.

Hay, O. P. 1902 A, 667.
Loomis, F. B. 1924 B, 37.
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187, 188, 190.
Thorpe, M. R. 1921 D, 95, 96, figs. 1-3.
Trouessart, E. L. 1905 A, 668.
 Middle Oligocene (John Day); Oregon.

Eporeodon pacificus (Cope).

Hay, O. P. 1902 A, 667.
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187, 188, 190 (E. occidentalis pacificus).
Thorpe, M. R. 1921 D, 95, 98 (Subsp. of E. leptacanthus).
Trouessart, E. L. 1905 A, 668 (E. occidentalis pacificus).
 Middle Oligocene (John Day); Oregon.

Eporeodon perbullatus Thorpe.

Thorpe, M. R. 1921 D, 106, figs. 9, 10.
 Upper Oligocene (Upper John Day); Oregon.

Eporeodon relictus Loomis.

Loomis, F. B. 1924 B, 36, fig. 26.
 Miocene (Lower Rosebud); South Dakota.

Eporeodon socialis Marsh.

Hay, O. P. 1902 A, 667.
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187.
Peterson, O. A. 1928 B, 164.
Thorpe, M. R. 1921 F, 309, pl. i, text-figs. 2-4.
1923 D, 99.
1924 B, 224.
Trouessart, E. L. 1905 A, 668.
Upper Oligocene (Upper Brule); Nebraska.

Eporeodon trigonocephalus (Cope).

Hay, O. P. 1902 A, 667.
Matthew, W. D. 1909 C, 109.
Merriam and Sinclair 1907 A, 187, 191, 192.
Peterson, O. A. 1928 B, 164.
Thorpe, M. R. 1921 D, 95, 101.
Upper Oligocene (John Day); Oregon.

Eporeodon trigonocephalus parvus Thorpe.

Thorpe, M. R. 1921 D, 101, figs. 4, 5.
Upper Oligocene (Upper John Day); Oregon.

Eporeodon sp. indet.

Matthew, W. D. 1909 C, 109, 113. Miocene (Lower); South Dakota.
Merriam, J. C. 1901 B, 587, fig. 6 ("Oreodon").
Merriam and Sinclair 1907 A, 192. Miocene (John Day); Oregon.

MESOREODON Scott. Type *M. chelonyx* Scott.

Hay, O. P. 1902 A, 667.
Beddard, F. E. 1902 A, 330.
Douglass, E. 1906 A, 566.
Haug, E. 1911 A, 1705.
Howes, G. B. 1902 A, 523.
Kampfen, P. N. 1905 A, 591.
Loomis, F. B. 1924 B, 9, 15.
1925 A, 248.
Matthew, W. D. 1901 B, 395.
1907 A, 172, 176.
1909 C, 119.
1910 H, 474.
Osborn, H. F. 1909 D, 72, 73, 75.
1910 B, 233, 550.
1912 G, 247, 249.
O'Harra, C. C. 1910 A, 109, 132.
Palmer, T. S. 1904 A, 415, 912.
Peterson, O. A. 1906 C, 24.
1928 B, 141.
Scott, W. B. 1913 A, 372, 378.
Thorpe, M. R. 1925 A, 75.
Trouessart, E. L. 1905 A, 668.
Weber, M. 1904 A, 663.
Weber and Abel 1928 A, 610.
Zittel and Schlosser 1911 A, 483.
1923 A, 572, 670, 673, 679.

Mesoreodon chelonyx Scott.

Hay, O. P. 1902 A, 667.
Douglass, E. 1903 A, 151.
1907 C, 102.
Loomis, F. B. 1924 B, 9.
Matthew, W. D. 1909 C, 113.
Lower Miocene (Harrison); Montana.

Mesoreodon intermedius Scott.

Hay, O. P. 1902 A, 667.
Douglass, E. 1903 A, 151.
Matthew, W. D. 1909 C, 113.
Lower Miocene (Harrison); Montana.

Mesoreodon megalodon Peterson.

Peterson, O. A. 1906 C, 24, figs. 2, 3.
Cook, H. J. 1912 D, 40.
Loomis, F. B. 1924 B, 8, 9, fig. 5.
Matthew, W. D. 1909 C, 113.
O'Harra, C. C. 1920 A, 157.
Lower Miocene (Harrison); Nebraska, S. Dakota.

PROMERYCHOCHŒRUS Douglass. Type *P. superbus* Douglass.

Douglass, E. 1901 A, 82.
1906 A, 566.
Gregory, W. K. 1920 A, 189, fig. 159.
Haug, E. 1911 A, 1705.
Holland, W. J. 1914 A, 197.
Loomis, F. B. 1924 B, 9, 10, 15.
1925 A, 248.
Matthew, W. D. 1901 B, 374, 395, 396, 398.
1903 B, 221.
1907 A, 169, 172, 176.
1909 C, 111, 119.
1910, in Merriam 1901 A, 296 (Paracotylops, type *Oreodon superbus* Leidy).
1910 H, 475.
1924 E, 748, 751.
Merriam, J. C. 1915 E, 233.
Merriam and Sinclair 1903 A, 95.
1907 A, 192.
Moodie, R. L. 1916 E, 139.
O'Harra, C. C. 1910 A, 109, 132.
1920 A, 126.
Ortmann, A. E. 1909 A, 22.
Osborn, H. F. 1907 F, 872.
1909 D, 23, 134.
1910 B, 628, fig. 120.
1912 G, 245, 249.
Palmer, T. S. 1904 A, 572, 912 (Promerycochœrus); 511, 912 (Paracotylops).
Peterson, O. A. 1914 E, 149.
1923 C, 98.
Scott, W. B. 1913 A, 235, 250, 267, 375.
Sinclair, W. J. 1901 A, 703 (Paracotylops a syn.).
Smith and Packard 1919 A, 96.
Thorpe, M. R. 1920 A, 207.
1921 A, 215.
1921 D, 93.
1923 E, 242, 244.
1924 D, 125, 128.
1925 A, 72.
Trouessart, E. L. 1905 A, 669.
Weber and Abel 1928 A, 610.
Zittel and Schlosser 1911 A, 483.
1923 A, 572, 672, 673.

Promerychochœrus carrikeri Peterson.

Peterson, O. A. 1906 C, 24, 26, pls. ix, x.
Barbour and Cook 1917 A, 171, fig. 8.
Cook, H. J. 1912 D, 40.
Loomis, F. B. 1923 A, 223.
Matthew, W. D. 1909 C, 113.
O'Harra, C. C. 1910 A, 110, pl. xlviii.
1920 A, 70, 126, 157, figs. 20, 63.
Ortmann, A. E. 1909 A, 22, fig.
Osborn, H. F. 1909 D, 72.
1912 G, 247.
Peterson, O. A. 1914 E, 150, 156, pls. xxxiii-xxxix; text-figs. 1-32.
1928 B, 144.
Schuchert, C. 1915 A, 933, fig. 506.
Scott, W. B. 1913 A, 376, fig. 199.
Lower Miocene (Monroe Creek); Nebraska.

Promerycochœrus chelydra (Cope).

Hay, O. P. 1902 A, 668 (Merycochœrus).
Douglass, E. 1901 A, 82.
Loomis, F. B. 1924 B, 23.
Matthew, W. D. 1901 B, 398.
1909 C, 109.
Merriam and Sinclair 1907 A, 187, 191, 192.
Peterson, O. A. 1914 E, 150, pl. xli; pl. xlii, fig. 1.
Thorpe, M. R. 1921 A, 220, 225.
Upper Oligocene (John Day); Oregon.

Promerycochœrus curvidens (Thorpe).

Thorpe, M. R. 1921 A, 241, fig. 6 (Desmatochœrus, subgenus).
Upper Oligocene (Middle John Day); Oregon.

Promerycochœrus grandis Douglass.

Douglass, E. 1907 C, 104, pl. xxvii.
1907 A, 822.
Loomis, F. B. 1924 B, 9, 22, fig. 5.
Matthew, W. D. 1909 C, 113.
Lower Miocene (Harrison); Montana.

Promerycochœrus gregoryi Loomis.

Loomis, F. B. 1924 B, 23, fig. 12.
Miocene (Lower Rosebud); South Dakota.

Promerycochœrus hatcheri Douglass.

Douglass, E. 1907 C, 104, pl. xxvi.
1907 A, 822.
Matthew, W. D. 1909 C, 113.
Lower Miocene (Harrison); Montana.

Promerycochœrus hollandi Douglass.

Douglass, E. 1907 C, 106, pl. xxviii.
1907 A, 822.
Loomis, F. B. 1924 B, 23.
Matthew, W. D. 1909 C, 113.
Lower Miocene (Harrison); Montana.

Promerycochœrus inflatus Thorpe.

Thorpe, M. R. 1921 A, 235, fig. 3.
Upper Oligocene (Upper John Day); Oregon.

Promerycochœrus latidens Thorpe.

Thorpe, M. R. 1921 A, 232, fig. 2.
Loomis, F. B. 1924 B, 22.
Upper Oligocene (Upper John Day); Oregon.

Promerycochœrus leidyi (Bettany).

Hay, O. P. 1902 A, 668 (Merycochœrus).
Douglass, E. 1901 A, 82.
Loomis, F. B. 1924 B, 23.
Matthew, W. D. 1901 B, 398.
1909 C, 109.
Merriam, J. C. 1901 A, 273 ("Merycocherus").
Merriam and Sinclair 1907 A, 187, 191, 192.
Thorpe, M. R. 1921 A, 220, 228.
Upper Oligocene (John Day); Oregon.

Promerycochœrus lulli Thorpe.

Thorpe, M. R. 1921 A, 232, figs. 1*a*, 1*b*.
1923 C, 227.
Upper Oligocene (Upper John Day); Oregon.

Promerycochœrus macrostegus (Cope).

Hay, O. P. 1902 A, 668 (Merycochœrus).
Abel, O. 1919 A, 806, fig. 607.
Douglass, E. 1901 A, 82.
Loomis, F. B. 1924 B, 22.
Matthew, W. D. 1901 B, 398, 399, 404, text-figs. 19, 22.
1909 C, 109.
Merriam and Sinclair 1907 A, 187, 191, 192.
Osborn, H. F. 1910 B, 231, fig. 115.
Thorpe, M. R. 1921 A, 220, 226.
Trouessart, E. L. 1905 A, 669.
Zittel and Schlosser 1911 A, 483, fig. 675.
1923 A, 573, fig. 716.
Upper Oligocene (John Day); Oregon.

Promerycochœrus marshi Thorpe.

Thorpe, M. R. 1921 A, 236, fig. 4.
Loomis, F. B. 1924 B, 22.
Thorpe, M. R. 1925 A, 71, fig. 1.
Weber and Abel 1928 A, 610, fig. 405.
Upper Oligocene (Upper John Day); Oregon.

Promerycochœrus microcephalus Thorpe.

Thorpe, M. R. 1921 A, 239, fig. 5.
Upper Oligocene (Middle John Day); Oregon.

Promerycochœrus minor Douglass.

Douglass, E. 1903 A, 151, 168, fig. 12.
1907 A, 822.
Matthew, W. D. 1909 C, 109.
Upper Oligocene? (Drummond); Montana.

Promerycochœrus montanus (Cope).

Hay, O. P. 1902 A, 668 (Merycochœrus).
Dall and Harris 1892 A, 288.
Douglass, E. 1901 A, 82.
1907 A, 821.
Matthew, W. D. 1901 B, 297 (Merycochœrus).
1909 C, 115.
Peterson, O. A. 1928 B, 149.
Middle Miocene (Deep River); Montana.

Promerycochœrus obliquidens (Cope).

Hay, O. P. 1902 A, 668 (Merycochœrus).
Dall and Harris 1892 A, 282 (Merycochœrus).
Douglass, E. 1901 A, 81, fig. 5 (This species?).
Matthew, W. D. 1901 B, 398.
 1909 C, 115 (This genus?).
Merriam and Sinclair 1907 A, 196.
 Middle Miocene (John Day); Oregon.

Promerycochœrus pygmæus Loomis.

Loomis, F. B. 1924 B, 27, fig. 13 (P. pygmyus; *err. typ.*).
 Miocene (Lower Rosebud); South Dakota.

Promerycochœrus superbus (Leidy).

Hay, O. P. 1902 A, 668 (Merycochœrus).
Douglass, E. 1901 A, 82.
Matthew, W. D. 1901, in Merriam, J. C.
 1901 A, 296 (Paracotylops).
 1901 B, 398 (M. superbus, M. temporalis).
 1909 C, 109.
Merriam and Sinclair 1907 A, 187, 191, 192.
Thorpe, M. R. 1921 A, 220, 221.
 1924 D, 126, 127.
Trouessart, E. L. 1905 A, 669.
Zittel and Schlosser 1911 A, 483, fig. 675.
 1923 A, 573, fig. 716.
 Upper Oligocene (Mascall); Oregon.

Promerycochœrus thomsoni Loomis.

Loomis, F. B. 1924 B, 22, figs. 9-11.
 Miocene (Lower Rosebud); South Dakota.

Promerycochœrus vantasselensis Peterson.

Peterson, O. A. 1906 C, 35, 36, pl. xi.
Cook, H. J. 1912 D, 41.
Loomis, F. B. 1923 A, 223, fig. 1.
Matthew, W. D. 1909 C, 113.
O'Harra, C. C. 1920 A, 157.
Osborn, H. F. 1909 D, 72, 74.
 1912 G, 247.
Peterson, O. A. 1914 E, 198, pl. xl; text-figs. 33-41.
 Lower Miocene (L. Harrison); Nebraska, Wyoming.

Promerycochœrus sp. indet.

Matthew, W. D. 1909 C, 113. Miocene (Lower), South Dakota.

Merycochœrus Leidy. Type *M. proprius* Leidy.

Hay, O. P. 1902 A, 667.
Abel, O. 1926 B, 353, 360.
Barbour and Cook 1917 A, 169.
Beddard, F. E. 1902 A, 330.
Douglass, E. 1901 A, 73.
 1901 B, 257.
 1906 A, 567.
 1907 B, 84, 90.
Frick, C. 1926 A, 21.
Giebel, C. G. 1883 A, 133.
Gregory, W. K. 1920 A, 189, fig. 160.
Haug, E. 1911 A, 1706.
Loomis, F. B. 1924 B, 10, 15, 27.
 1925 E, 594, figs. 7, 8.
Matthew, W. D. 1901, in Merriam, J. C. 1901 A, 296.
 1901 B, 365, 366, 370, 374, 395-398.
 1903 B, 221.
 1907 A, 173, 176.
 1910 H, 475.
 1924 C, 72.
 1924 E, 748.
Merriam, J. C. 1900 B, 220.
Moodie, R. L. 1916 E, 135, figs. 1-4.
 1922 C, 367.
Osborn, H. F. 1901 C, 46.
 1907 F, 872.
 1909 D, 23, 129.
 1910 B, 623.
 1912 G, 247, 248, 249.
 1918 A, 13, 20.
Osburn, R. C. 1903 A, 653.
Palmer, T. S. 1904 A, 411, 912.
Peterson, O. A. 1906 C, 36.
Schlosser, M. 1904 C, 97.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 685.
Steinmann, G. 1907 A, 480.
Thorpe, M. R. 1924 D, 121, 127.
 1925 A, 74, 75.
Trouessart, E. L. 1905 A, 669.
Wallace, A. R. 1876 A, I, 138.
Weber, M. 1904 A, 663.
Weber and Abel 1928 A, 611.
Winge, H. 1906 A, 133.
Zittel and Schlosser 1911 A, 483.
 1923 A, 572, 672, 673, 679.

Merycochœrus? buwaldi Merriam, J. C.

Merriam, J. C. 1919 A, 450, 507, 527, 576, figs. 84-89.
 Upper Miocene (Barstow); California.

Merycochœrus? californicus Merriam, J. C.

Merriam, J. C. 1919 A, 525, 527, 575, figs. 211-215 [M. (Pronomotherium?)].
 1917 A, 431 [M. (Pronomotherium)]. No description.
 Lower Pliocene (Ricardo); Caifornia.

Merycochœrus cœnopus Scott.

Hay, O. P. 1902 A, 668.
Matthew, W. D. 1909 C, 117 (M. cenopus).
 Upper Miocene (Arikaree); Nebraska?

Merycochœrus compressidens Douglass.

Douglass, E. 1901 A, 79, fig. 4.
 1907 A, 821 (This genus?).
Matthew, W. D. 1901 B, 398.
Trouessart, E. L. 1905 A, 669.
 Miocene; Montana.

Merycochœrus elrodi Douglass.

Douglass, E. 1901 A, 78, fig. 3.
Matthew, W. D. 1901 B, 398.
Trouessart, E. L. 1905 A, 669.
 Miocene ("Loup Fork"); Montana.

Merycochœrus magnus Loomis.

Loomis, F. B. 1924 B, 28, figs. 16, 17.
Lower Miocene (Upper Harrison); Nebraska.

Merycochœrus matthewi Loomis.

Loomis, F. B. 1924 B, 27, figs. 14, 15.
Lower Miocene (Upper Rosebud); South Dakota.

Merycochœrus proprius Leidy.

Hay, O. P. 1902 A, 668.
Barbour and Cook 1917 A, 171, fig. 7.
Douglass, E. 1901 A, 82.
1907 B, 90.
Loomis, F. B. 1924 B, 27.
Matthew, W. D. 1901 B, 358, 373, 397, 399, 401, 411, text-figs. 18, 20, 21, 23-26.
1909 C, 113, 115.
Merriam, J. C. 1919 A, 508, 578.
Merrill, G. P. 1907 A, 47.
Osborn, H. F. 1910 B, 286, fig. 140.
Peterson, O. A. 1906 C, 63 (This species?).
1914 E, pl. xlii, figs. 2, 3.
Scott, W. B. 1913 A, 373, 382, figs. 197, 204.
Thorpe, M. R. 1921 A, 215.
Trouessart, E. L. 1905 A, 669.
Lower Miocene (Laramie Peak); Wyoming; ? Middle (Pawnee Creek); Colorado.

Merycochœrus rusticus Leidy.

Hay, O. P. 1902 A, 668.
Douglass, E. 1901 A, 82.
1907 B, 85, 96.
Matthew, W. D. 1901 B, 358, 395, 401, 412, 418, text-figs. 27, 28 (Merycochœrus); 397 [M. (Brachycrus)].
1909 C, 113, 115.
Merrill, G. P. 1907 A, 48.
Moodie, R. L. 1918 D, 508, fig. 40.
1923 B, 270, pl. lii.
Peterson, O. A. 1906 C, 65.
Thorpe, M. R. 1924 D, 123, 124.
Trouessart, E. L. 1905 A, 669.
Lower Miocene (Sweetwater River), Wyoming: ? Middle Miocene (Pawnee Creek); Colorado.

Merycochœrus sp. indet.

Hay, O. P. 1902 A, 668.
Cook, H. J. 1912 D, 42. Miocene (Upper Harrison); Nebraska.
Matthew, W. D. 1909 C, 113, 117. Miocene (Lower); Nebraska, South Dakota.
Merriam, J. C. 1917 A, 438. Pliocene? (Republican River); Nebraska.
Merriam and Sinclair 1907 A, 196. Miocene (Mascall); Oregon.
Merrill, G. P. 1907 A, 48. Pliocene; Wyoming.

PRONOMOTHERIUM Douglass. Type *Merycochœrus laticeps* Douglass.

Douglass, E. 1907 B, 94.
Barbour and Cook 1917 A, 169.
Douglass, E. 1909 A, 477.
Loomis, F. B. 1924 B, 14, 15.
Matthew, W. D. 1909 C, 119.
1910 H, 475.
1924 C, 72.
Osborn, H. F. 1910 B, 291, 300, 550; fig. 144.
Scott, W. B. 1913 A, 231, 374, 381.
Thorpe, M. R. 1924 D.
1925 A, 74.
Weber and Abel 1928 A, 611.
Zittel and Schlosser 1923 A, 572, 679.

Pronomotherium altiramum (Douglass).

Douglass, E. 1901 A, 73, fig. 1 (Merycochœrus).
1901 B, 256 (Merycochœrus?).
1903 A, 154 (Merycochœrus).
1906 A, 567 (Merycochœrus).
1907 A, 809, 817, 821; figs. 8, 9.
1907 B, 97 (Merycochœrus?).
Loomis, F. B. 1924 B, 8, fig. 5.
Matthew, W. D. 1909 C, 117 (P. altiramis).
Merriam, J. C. 1919 A, 577, 578.
Thorpe, M. R. 1925 A, 75, fig. 5.
Trouessart, E. L. 1905 A, 669 (Merycochœrus altiramis).
Weber and Abel 1928 A, 612, fig. 407.
Upper Miocene (Madison Valley); Montana.

Pronomotherium laticeps (Douglass).

Hay, O. P. 1902 A, 668 (Merycochœrus).
Douglass, E. 1901 A, 82 (Merycochœrus).
1901 B, 238, 256 (Merycochœrus?).
1903 A, 153.
1906 A, 567.
1907 A, 818, 821.
Matthew, W. D. 1901 B, 398 (Merycochœrus).
1909 C, 115.
Merriam, J. C. 1919 A, 578.
Scott, W. B. 1913 A, 375, fig. 198.
Middle Miocene (Flint Creek); Montana.

Pronomotherium madisonium (Douglass).

Douglass, E. 1901 A, 75, fig. 2 (Merycochœrus).
1903 A, 154 (Merycochœrus).
1907 A, 821.
Matthew, W. D. 1901 B, 398 (Merycochœrus).
Trouessart, E. L. 1905 A, 669 (Merycochœrus).
Upper Miocene (South Fork); Montana.

Pronomotherium siouense Sinclair.

Sinclair, W. J. 1915 A, 77, 86, fig. 11.
Matthew, W. D. 1918 A, 187.
1924 C, 67, 181, 184, figs. 51-53.
Merriam, J. C. 1917 A, 436.
Upper and Middle Miocene (Snake Creek and Sheep Creek); Nebraska.

MERYCOIDES Douglass. Type *M. cursor* Douglass.

Douglass, E. 1907 C, 101.
Matthew, W. D. 1909 C, 119.

Merycoides cursor Douglass.

Douglass, E. 1907 C, 101, pl. xxiv.
1907 A, 822.
Loomis, F. B. 1924 B, 9, 12.
Matthew, W. D. 1909 C, 113.
Lower Miocene (Canyon Ferry); Montana.

Merycoides latidens (Douglass).

Douglass, E. 1907 C, 102, pl. xxv (Mesoreodon).
Loomis, F. B. 1924 B, 9, 12.
Matthew, W. D. 1909 C, 113 (Mesoreodon).
Lower Miocene (Harrison); Montana.

Merycoides longiceps (Douglass).

Douglass, E. 1907 A, 809, 811, 822, figs. 1-5 (Mesoreodon).
Loomis, F. B. 1924 B, 9, 12, fig. 6.
Matthew, W. D. 1909 C, 115 (Mesoreodon).
Middle Miocene (Deep River); Montana.

MERYCHYUS Leidy. Type *M. elegans* Leidy.

Hay, O. P. 1902 A, 669.
Barbour and Cook 1917 A, 165.
Douglass, E. 1906 A, 567.
Flower, W. H. 1873 B, 102.
Giebel, C. G. 1883 A, 133.
Haug, E. 1911 A, 1705, 1706.
Heilprin, A. 1887 A, 382.
Kampfen, P. N. 1905 A, 591.
Loomis, F. B. 1924 B, 1, 12, 15, 30.
1925 A, 248.
Matthew, W. D. 1901 B, 374, 395, 396, 418.
1903 B, 221.
1909 C, 113, 119 (Merychyus).
1910 H, 474.
1918 A, 215.
1924 C, 72.
1924 E, 748.
Matthew and Cook 1909 A, 367, 391 (Merychyus, Metoreodon).
Merriam, J. C. 1911 B, 207, 215, 217.
O'Harra, C. C. 1910 A, 109, 132.
Osborn, H. F. 1909 D, 129.
1910 B, 623.
1912 G, 249.
Palmer, T. S. 1904 A, 411, 912.
Peterson, O. A. 1906 C, 22.
1928 B.
Riggs, E. S. 1909 A, 196.
Scott, W. B. 1913 A, 232, 372, 373, 382, 685.
Thorpe, M. R. 1925 A, 75.
Trouessart, E. L. 1905 A, 670.
Wallace, A. R. 1876 A, I, 138.
Weber, M. 1904 A, 663.
Weber and Abel 1928 A, 611.
Winge, H. 1906 A, 133.
Zittel and Schlosser 1911 A, 483.
1923 A, 573, 672, 673, 679.

Merychyus arenarum Cope.

Hay, O. P. 1902 A, 669.
Matthew, W. D. 1901 B, 395, 420.
1909 C, 113.
1918 A, 215 (M. arenarius. This genus?).
Peterson, O. A. 1923 C, 97.
Trouessart, E. L. 1904 A, 670.
Lower Miocene (Laramie Peak); Wyoming.

Merychyus curtus Loomis.

Loomis, F. B. 1924 B, 13, 31, figs. 19, 20.
Lower Miocene (Lower Rosebud); South Dakota.

Merychyus delicatus Loomis.

Loomis, F. B. 1924 B, 33, fig. 22.
Lower Miocene (Lower Rosebud); South Dakota.

Merychyus elegans Leidy.

Hay, O. P. 1902 A, 669.
Gidley, J. W. 1904 A, 246 (This species?).
Loomis, F. B. 1923 A, 228.
1924 B, 13, 30.
Matthew, W. D. 1901 B, 358, 395, 419.
1909 C, 113 (This species?); 117 (M. elegans).
Matthew and Cook 1909 A, 391, 394.
Merrill, G. P. 1907 A, 47.
Peterson, O. A. 1923 C, 97.
1928 B, 135, 138.
Trouessart, E. L. 1905 A, 670.
? Lower Miocene (Harrison); Nebraska.
Upper Miocene (Arikaree); Nebraska.

Merychyus harrisonensis Peterson.

Peterson, O. A. 1906 C, 35, 37, figs. 7, 8.
Barbour and Cook 1917 A, 170, fig. 5.
Cook, H. J. 1912 D, 41 (This genus?).
Loomis, F. B. 1923 A, 227, fig. 5 (Ticholeptus).
Matthew, W. D. 1909 C, 113 (This genus?).
O'Harra, C. C. 1920 A, 157.
Peterson, O. A. 1923 C, 97.
Sternberg, C. H. 1913 A, 46.
Lower Miocene (Lower Harrison); Nebraska.

Merychyus leptorhynchus Cope.

Cope, E. D. 1884 M, 536, 537, 540 (Subsp. of M. arenarum).
Hay, O. P. 1902 A, 669 (M. arenarum, part).
Loomis, F. B. 1920 A, 290 (M. leptorhyncus).
Matthew, W. D. 1901 B, 395, 420.
1909 C, 113.
Peterson, O. A. 1923 C, 97.
1928 B, 135.
Lower Miocene (Laramie Peak); Wyoming.

Merychyus major Leidy.

Hay, O. P. 1902 A, 669.
Matthew, W. D. 1909 C, 117 (This genus?).
Merrill, G. P. 1907 A, 47.
Palacký, J. 1903 B, 317 (Meryhyus)

Peterson, O. A. 1906 C, 36, 68.
1923 C, 97.
Trouessart, E. L. 1905 A, 670.
Upper Miocene (Arikaree); Nebraska.

Merychyus medius Leidy.

Hay, O. P. 1902 A, 669.
Matthew, W. D. 1901 B, 358.
1909 C, 117 (This genus?).
Merrill, G. P. 1907 A, 47.
Peterson, O. A. 1906 C, 65.
1923 C, 97.
Upper Miocene (Arikaree); Nebraska.

Merychyus minimus Peterson.

Peterson, O. A. 1906 C, 67, fig. 16.
Cook, H. J. 1912 D, 42.
Loomis, F. B. 1909 A, 21.
1924 B, 13, 33, fig. 7.
Matthew, W. D. 1909 C, 113.
1918 A, 215 (This genus?).
O'Harra, C. C. 1920 A, 157.
Peterson, O. A. 1923 C, 96, pls. vii, viii; text-figs. 1-8.
1928 B, 155.
Lower Miocene (Upper Harrison); Nebraska.

Merychyus paniensis Loomis.

Loomis, F. B. 1924 B, 34, figs. 23, 24.
Middle Miocene (Pawnee Creek); Colorado.

Merychyus pariogonus Cope.

Hay, O. P. 1902 A, 669.
Dall and Harris 1892 A, 288.
Matthew, W. D. 1909 C, 115.
Peterson, O. A. 1906 C, 68.
1923 C, 97 (M. parigonus).
Middle Miocene (Deep River); Montana.

Merychyus siouxensis Loomis.

Loomis, F. B. 1924 B, 31, 33, fig. 21.
Miocene (Lower Harrison); South Dakota.

Merychyus smithi Douglass.

Douglass, E. 1903 A, 153, 179, fig. 19.
1907 A, 821 (Ticholeptus).
1907 B, 98.
Matthew, W. D. 1909 C, 115.
Middle Miocene (Flint Creek); Montana.

Merychyus sp. indet.

Matthew, W. D. 1901 B, 358, 359.
1909 C, 115, 117. Miocene (Arikaree); South Dakota.
1924 C, 67. Middle Miocene (Sheep Creek); Nebraska.
Merriam, J. C. 1911 B, 276, figs. 48, 49 (This genus?). (Virgin Valley); Nevada.
1917 A, 436 [M. (Metoreodon)]. Miocene (Snake Creek); Nebraska.
Peterson, O. A. 1906 C, 40. Miocene (Lower); Nebraska.
Sinclair, W. J. 1915 A, 77. [M. (Metoreodon)]; Nebraska.

METOREODON Matthew and Cook. Type *M. relictus* Matthew and Cook.

Matthew and Cook 1909 A, 391 (Subgenus of Merychyus).
Barbour and Cook 1917 A, 165.
Loomis, F. B. 1924 B, 12, 15, 36.
Matthew, W. D. 1910 H, 475.
1918 A, 215.
1924 C, 72.
Osborn, H. F. 1918 A, 29.
Weber and Abel 1928 A, 610.

Metoreodon profectus Matthew and Cook.

Matthew and Cook 1909 A, 394, fig. 15 [Merychyus (Metoreodon)].
Barbour and Cook 1917 A, 165, figs. 1-3.
Cook, H. J. 1912 D, 45 (Meteoreodon relictus profectus).
Loomis, F. B. 1924 B, 36.
Matthew, W. D. 1918 A, 187.
Merriam, J. C. 1917 A, 436 [M. (Metoreodon)].
Sinclair, W. J. 1915 A, 77 [Merychyus (Metoreodon)].
Lower Pliocene (Snake Creek and Devil's Gulch); Nebraska.

Metoreodon relictus Matthew and Cook.

Matthew and Cook 1909 A, 391, fig. 14 [Merychyus (Metoreodon)].
Cook, H. J. 1912 D, 45 (Meteoreodon).
Loomis, F. B. 1924 B, 11, fig. 6.
Matthew, W. D. 1918 A, 187, 216.
1924 C, 67.
Merriam, J. C. 1917 A, 436 [Merychyus (Metoreodon)].
Sinclair, W. J. 1915 A, 77 [Merychyus (Metoreodon)].
Upper Miocene (Lower Snake Creek); Nebraska.

LEPTAUCHENIA Leidy. Type *L. decora* Leidy.

Hay, O. P. 1902 A, 670.
Douglass, E. 1901 B, 257.
Giebel, C. G. 1883 A, 133.
Gregory, W. K. 1920 A, 188, fig. 157.
Haug, E. 1911 A, 1528, 1529.
Kampfen, P. N. 1905 A, 591.
Loomis, F. B. 1924 B, 1, 13, 14, 15.
1925 A, 241, 245.
1925 E, 594, figs. 7, 8.
Matthew, W. D. 1901 B, 364, 370, 395, 396.
1907 A, 172, 174, 176.
1909 C, 111, 119.
1910 H, 474.
1924 E, 748.
O'Harra, C. C. 1910 A, 109, 132.
1920 A, 126.
Osborn, H. F. 1909 D, 23, 63, 128
1910 B, 620.

Osborn, H. F. 1912 G, 243, 247, 249.
Peterson, O. A. 1906 C, 24.
1923 C, 98.
1928 B.
Schlosser, M. 1904 C, 97.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 258, 377.
Sinclair, W. J. 1910 B, 196.
Thorpe, M. R. 1921 B, 405.
1923 E, 241.
1925 A, 72, 78.
Trouessart, E. L. 1905 A, 670.
Wallace, A. R. 1876 A, I, 138.
Weber and Abel 1928 A, xxiii, 609, 611.
Winge, H. 1906 A, 133.
Zittel and Schlosser 1911 A, 483.
1923 A, 573, 670-672.

Leptauchenia decora Leidy.

Hay, O. P. 1902 A, 670.
Abel, O. 1914 A, 167, fig. 122.
1919 A, 807, fig. 608.
1920 A, 436, fig. 661.
Giebel, C. G. 1883 A, pl. xliv.
Loomis, F. B. 1924 B, 13.
1925 A, 241, 242.
Matthew, W. D. 1901 B, 357, 373.
1909 C, 113.
O'Harra, C. C. 1920 A, 127, 157, fig. 64.
Osborn, H. F. 1909 D, 73.
Peterson, O. A. 1906 C, 23.
1928 B, 144.
Sinclair, W. J. 1910 B, 196, fig. 1.
Thorpe, M. R. 1921 B, 406.
Weber and Abel 1928 A, 608, fig. 401.
Oligocene (Upper) or Miocene (Lower); Nebraska, South Dakota.

Leptauchenia densa Loomis.

Loomis, F. B. 1925 A, 245, figs. 3, 4.
Lower Miocene (Lower Rosebud); Wyoming.

Leptauchenia major Leidy.

Hay, O. P. 1902 A, 670.
Loomis, F. B. 1925 A, 246, 247.
Matthew, W. D. 1909 C, 113.
O'Harra, C. C. 1920 A, 157.
Thorpe, M. R. 1921 B, 409.
Trouessart, E. L. 1905 A, 670.
Oligocene (Upper) or Miocene (Lower); South Dakota.

Leptauchenia nitida Leidy.

Hay, O. P. 1902 A, 670.
Loomis, F. B. 1925 A, 247.
Matthew, W. D. 1909 C, 113.
O'Harra, C. C. 1920 A, 157, pl. xli.
Scott, W. B. 1913 A, 377, 378, figs. 200, 201.
Thorpe, M. R. 1921 B, 410.
Oligocene (Upper) or Miocene (Lower); South Dakota.

Leptauchenia sp. indet.

Cook, H. J. 1912 D, 37, 39. Oligocene (Brule); Nebraska: 40. Miocene (Monroe Creek), Nebraska?.
Matthew, W. D. 1909 C, 106, 109, 113. Oligocene (Middle and Upper): Miocene (Lower); Nebraska, South Dakota.
Wanless, H. R. 1923 A, 226, 231. Oligocene (White River); Nebraska.

PHENACOCŒLUS Peterson. Type *P. typus* Peterson.

Peterson, O. A. 1906 C, 24, 29.
Loomis, F. B. 1924 B, 12, 15.
Matthew, W. D. 1909 C, 119.
Osborn, H. F. 1909 D, 74.
1910 B, 233, 236, 550, fig. 120.
Peterson, O. A. 1923 C, 98.
1928 B, 131.
Sinclair, W. J. 1910 B, 196.
Thorpe, M. R. 1925 A, 75.
Weber and Abel 1928 A, 611.

Phenacocœlus munroënsis Peterson.

Peterson, O. A. 1928 B, 161, pl. xviii, figs. 1-9.
Lower Miocene (Monroe Creek); Nebraska.

Phenacocœlus typus Peterson.

Peterson, O. A. 1906 A, 24, 29, figs. 4-6.
Cook, H. J. 1912 D, 40.
Loomis, F. B. 1924 B, 11, fig. 6.
Matthew, W. D. 1909 C, 113.
O'Harra, C. C. 1920 A, 157.
Peterson, O. A. 1928 B, 132, pl. xvi; pl. xvii, figs. 1, 2, 4-12; pl. xviii, figs. 12, 13; pls. xix, xx.
Lower Miocene (Harrison); Nebraska.

TICHOLEPTUS Cope. Type *T. zygomaticus* Cope.

Cope, E. D. 1878 H, 380.
Hay, O. P. 1902 A, 669 (Merychyus, in part).
Douglass, E. 1906 A, 567.
Haug, E. 1911 A, 1705.
Loomis, F. B. 1924 B, 11, 12, 15, 35.
1925 A, 248.
1925 E, 594, figs. 7, 8.
Matthew, W. D. 1909 C, 119.
1910 H, 475.
1924 C, 72.
1924 E, 748.
Osborn, H. F. 1909 D, 23.
Osborn, H. F. 1910 B, 281, 288-297, 550.
1918 A, 13, 15.
Palmer, T. S. 1904 A, 679, 912.
Peterson, O. A. 1928 B.
Schuchert, C. 1910 A, 599.
Weber and Abel 1928 A, 610.

Ticholeptus bannackensis Douglass.

Douglass, E. 1907 C, 108, pl. xxx.
1907 A, 817, 822.
Matthew, W. D. 1909 C, 115.
Middle Miocene (Flint Creek); Montana.

Ticholeptus brachymelis Douglass.

Douglass, E. 1907 A, 809, 815, 822, figs. 6, 7.
Matthew, W. D. 1909 C, 115.
Middle Miocene (Flint Creek); Montana.

Ticholeptus breviceps Douglass.

Douglass, E. 1907 C, 107, pl. xxix.
Abel, O. 1913 B, 741, fig. 58.
1914 A, 168, fig. 123.
1919 A, 807, fig. 609.
Douglass, E. 1907 A, 816, 821.
Matthew, W. D. 1909 C, 115.
Osborn, H. F. 1910 B, 286, fig. 142.
Peterson, O. A. 1928 A, 99.
Richards and Pardee 1925 A, 15.
Weber and Abel 1928 A, 610, fig. 404.
Middle Miocene (Flint Creek); Montana.

Ticholeptus hypsodus Loomis.

Loomis, F. B. 1924 B, 35, fig. 25.
Miocene (Snake Creek); Nebraska.

Ticholeptus petersoni Loomis.

Loomis, F. B. 1923 A, 225, figs. 2-4.
1924 B, 11, fig. 6.
Peterson, O. A. 1928 A, 99.
Lower Miocene (Lower Harrison); Wyoming.

Ticholeptus zygomaticus Cope.

Hay, O. P. 1902 A, 669 (Merychyus).
Douglass, E. 1907 A, 816, 821.
Dall and Harris 1892 A, 288 (Merychyus).
Matthew, W. D. 1909 C, 115.
Middle Miocene (Deep River); Montana.

Ticholeptus sp. indet.

Peterson, O. A. 1928 A, 99, fig. 8. Miocene or Pliocene (Brown's Park); Colorado.

POATREPHES Douglass. Type *P. paludicola* Douglass.

Douglass, E. 1903 A, 176.
Loomis, F. B. 1924 B, 15.
Matthew, W. D. 1909 C, 119.

Poatrephes paludicola Douglass.

Douglass, E. 1903 A, 153, 176, 179, fig. 18.
1907 A, 821.
Matthew, W. D. 1909 C, 115.
Middle Miocene (Flint Creek); Montana.

CYCLOPIDIUS Cope. Type *C. simus* Cope.

Hay, O. P. 1902 A, 670.
Beddard, F. E. 1902 A, 331.
Kampfen, P. N. 1905 A, 591.
Loomis, F. B. 1924 B, 14, 15 (Cyclopidius); 14 (Chelonocephalus).
1925 A, 241, 244, 247.
Matthew, W. D. 1901 B, 374, 395, 445.
1909 C, 114.
Osborn, H. F. 1909 D, 78.
1910 B, 293, 550.
Palmer, T. S. 1904 A, 207, 911 (Cyclopidius); 142, 911 (Brachymeryx).
Peterson, O. A. 1906 C, 22.
1928 B, pl. xviii, figs. 10, 11.
Reynolds, S. H. 1897 A, 468.
Schlosser, M. 1904 C, 97.
Scott, W. B. 1913 A, 361, 376.
Sinclair, W. J. 1910 B, 198.
Thorpe, M. R. 1921 B, 412.
1923 E, 241.
1925 A, 73, 74 (Cyclopidius, Chelonocephalus).
Trouessart, E. L. 1905 A, 670.
Weber and Abel 1928 A, 611 (Cyclopidius, Pithecistes).
Winge, H. 1906 A, 133 (Cyclopidius, Pithecistes).
Zittel and Schlosser 1911 A, 484.
1923 A, 573, 673.

Cyclopidius brevifacies (Cope).

Hay, O. P. 1902 A, 670.
Dall and Harris 1892 A, 288 (Pithecistes).
Loomis, F. B. 1925 A, 241 (Pithecistes brevifacies); 247, 248 (P. breviceps).
Trouessart, E. L. 1905 A, 670.
Middle Miocene (Deep River); Montana.

Cyclopidius decedens (Cope).

Hay, O. P. 1902 A, 670.
Dall and Harris 1892 A, 288 (Pithecistes).
Loomis, F. B. 1925 A, 248 (Syn. of C. simus).
Matthew, W. D. 1909 C, 115.
Trouessart, E. L. 1905 A, 671.
Middle Miocene (Deep River); Montana.

Cyclopidius emydinus Cope.

Hay, O. P. 1902 A, 670.
Dall and Harris 1892 A, 288.
Douglas, E. 1907 A, 821.
Kampfen, P. N. 1905 A, 592.
Loomis, F. B. 1925 A, 241, 248.
Matthew, W. D. 1909 C, 115.
Miocene (Deep River); Montana.

Cyclopidius heterodon Cope.

Hay, O. P. 1902 A, 670.
Dall and Harris 1892 A, 288.
Loomis, F. B. 1925 A, 248 (Syn. of C. simus).
Trouessart, E. L. 1905 A, 671.
Miocene (Deep River); Montana.

Cyclopidius incisivus Scott.

Hay, O. P. 1902 A, 671.
Douglass, E. 1907 A, 821.
Loomis, F. B. 1925 A, 241, 248 (Syn.? of C. emydinus).
Matthew, W. D. 1909 C, 115.
Middle Miocene (Deep River); Montana.

Cyclopidius lullianus Thorpe.

Thorpe, M. R. 1921 B, 413, figs. 1, 2.
Loomis, F. B. 1925 A, 242, figs. 1, 2.

Thorpe, M. R. 1925 A, 72, fig. 2.
Lower Miocene (Lower Rosebud); Wyoming.

Cyclopidius schucherti (Thorpe).

Thorpe, M. R. 1921 B, 415, figs. 4-6 (Chelonocephalus, subgenus).
Loomis, F. B. 1925 A, 248 (Chelonocephalus?).
Thorpe, M. R. 1925 A, 73, figs. 3, 4 (Chelonocephalus).
Lower Miocene (Lower Rosebud); South Dakota.

Cyclopidius simus Cope.

Hay, O. P. 1902 A, 671.
Dall and Harris 1892 A, 288 (Brachymeryx feliceps).
Douglass, E. 1907 A, 821.
Loomis, F. B. 1925 A, 241, 247.
Matthew, W. D. 1909 C, 115.
Trouessart, E. L. 1905 A, 670.
Middle Miocene (Deep River); Montana.

HADROHYUS Leidy. Type *H. supremus* Leidy.

Hay, O. P. 1902 A, 671.
Palmer, T. S. 1904 A, 305, 931.
A genus of uncertain relationships.

Hadrohyus supremus Leidy.

Hay, O. P. 1902 A, 671.
Miocene; Oregon.

Suborder RUMINANTIA Cuvier.

Cuvier, G. 1834 A, VI.
Hay, O. P. 1902 A, 681 (Boöidea).
Beyer, H. 1908 A, 81 ("wiederkäuer").
Kowalevsky, W. 1873 A, 171 (Selenodonta).
Leche, W. 1900 A, 1033 ("wiederkäuer").
Matthew, W. D. 1928 B, 968, 981, fig. 16 ("ruminants").
Petersen, G. 1921 A, 294.
Weber, M. 1904 A, 645 (Selenodontia).
Weber and Abel 1928 A, 426, 538, 554, 565 (Selenodontia).
Weber and Burlet 1927 A, xv (Selenodontia).
Zittel, K. A. 1893 B, 324 (Selenodontia).
Zittel and Schlosser 1923 A, 569.

Superfamily CAMELOIDÆ, new form.

Unless otherwise indicated the authors, as cited, use for this group the term Tylopoda.

Hay, O. P. 1902 A, 662 (Cameloidea).
Andrews, C. W. 1916 A, 1.
Beddard, F. E. 1902 A, 285.
Boas, J. E. V. 1914 B, 589.
Bonaparte, C. L. 1832 A, 292.
Burmeister, H. 1879 B, 456.
Carus, V. 1875 A, 156.
Carus and Engelmann 1861 A, 1296, 1687 (Ruminantia, in part).
Clark and Sonntag 1926 A, 482.
Cope, E. D. 1891 N, 87, 89 (Cameloidea).
Eisler, P. 1895 A, 54 ("wiederkäuer").
Frech, F. 1906 A, 486 ("tylopoden").
Giebel, C. G. 1883 A ("tylopoden").
Gray, J. E. 1821 A, 307 (Hydrophoræ).
Gregory, W. K. 1910 A, 70.
Haeckel, E. 1873 A, 554.
Hay, O. P. 1914 A, 228 (Cameloidea).
Hoernes, R. 1886 A, 676.
Hogben, L. T. 1919 A, 75.
Illiger, C. 1811 A, 102.
Leche, W. 1887 A.
Lydekker, R. 1904 B, 25.
1913 B, 7.
1915 D, 298.
Matthew, W. D. 1901 B, 442.
Osborn, H. F. 1905 I, 101.
1910 B, 550.
Rehs, J. 1914 A, 48.
Reynolds, S. H. 1897 A, 557.
Schlosser, M. 1901 D, 462, 466 ("tylopoden").
1903 I, 96, 184, 209, 211.
1904 C, 95 ("tylopoden").
Scott, W. B. 1913 A, 202, 362, 386, 409, 410.
Stehlin, H. G. 1910 A, 1089 ("tylopoden").
Troxell, E. L. 1920 A, 392 (Tylopodidæ).
Weber, M. 1904 A, 628, 643, 655 (Tylopoda); 661 (Cameloidea).
Weber and Abel 1928 A, 426, 538, 555.
Woodward, A. S. 1923 C, 40.
Wright, R. R. 1883 A, 279.
Zittel and Schlosser 1923 A, 573.

CAMELIDÆ Gray.

Gray, J. E. 1821 A, 307.
Hay, O. P. 1902 A, 673 (Camelidæ); 680 (Camelinæ).
Abel, O. 1913 B, 729, 742.
1914 A, 168.
1919 A, 810.
1920 A, 436.
1921 A, 260 ("cameele").
Adams, C. C. 1905 A, 54 ("camels").
Ameghino, F. 1889 A, 1007.
1912 B, 171 ("camélidés").
Andrews, C. W. 1916 A, 1.
Arldt, T. 1907 B, 452 ("cameliden").
Arldt, T. 1907 D, 203, 256, 643 (Camelidæ, Camelinæ, Protolabinæ).
1911 A, 222 ("kamele").
1912 A, 100.
Baur, G. 1886 N, 117.
Beddard, F. E. 1902 A, 285.
Behlen, H. 1906 A, 187 ("cameliden").
1907 A, 278 ("cameliden").
Black, D. 1915 A, 353.
Black, N. 1900 A, 11 ("camels").
Boule and Thevenin 1920 A, 171.
Buwalda, J. P. 1912 C, 350 ("camels").
Case, E. C. 1899 B, 173.

Cleland, J. 1863 B, 298 (camel, alpaca).
Cope, E. D. 1880 U, 152.
1884 G, 16 (Protolabididæ).
Cossmann, M. 1899 B, 83.
Cuvier, F. 1825 A, 227 ("chameaux").
Cuvier, G. 1805 A ("chameaux").
Depéret, C. 1907 B ("camélidés").
Diener, C. 1912 A, 216 ("kamelen").
Doran, A. H. G. 1878 A, 424.
Eaton, J. E. 1928 A, 133 ("camels").
Fairchild, H. L. 1894 A, 208 ("camels").
Falconer and Cautley 1836 A, 116, 120.
Frech, F. 1906 A, 492 ("kamele").
1907 A, 316 ("cameliden").
Gervais, P. 1859 A, 156 ("camélidés").
Gidley, J. W. 1912 C, 19 ("camels, llamas").
Giebel, C. G. 1883 A ("llamas").
Gilbert, J. Z. 1910 B, 37.
Gregory, W. K. 1920 A, 193.
1927 A, 601 ("camels").
Haworth, E. 1897 A, 280 ("llamas").
Hay, O. P. 1910 D, 372 ("camels").
1914 A, 229, 230.
1916 E, 54 ("camels").
1919 A, 311 ("camels").
1923 A, 481.
1926 E, 388 ("camels").
1927 E, 77 ("camels").
Hrdlička, A. 1903 A, 379.
Huxley, T. H. 1870 F, 537, 542 ("camels").
Kampfen, P. N. 1905 A, 594.
Knottnerus-Meyer, T. 1907 A, 9, 97.
Laloy, L. 1907 A, 586 ("camélidés").
Le Damany, P. 1906 B, 163 ("chameaux").
Lee, Stone, Gale 1915 A, 27, 34 ("camels").
Lesbe, F. X. 1903 A.
Leunis and Ludwig 1883 A, 266.
Lobley, J. L. 1908 A, 200, 204, 213.
Loomis, F. B. 1925 B, 226 ("camels").
1925 E, 595.
1926 A, 153 ("camels").
Lull, R. S. 1904 C, 8.
1917 B, 624.
Lydekker, R. 1903 D, 124 ("camels").
1904 B, 25, 28.
1907 B, 60.
1913 B, 7.
1915 D, 299.
Martins, C. 1857 A, 70 ("chameaux").
Matthew, W. D. 1901 B, 420-439.
1904 B, 213.
1904 E, 892.
1908 A, 549, 561.
1909 C, 123.
1910 H, 477 ("camels").
1913 B, 291.
1914 G, 234.
1915 A, 187, 245, 247, 254, fig. 22.
1915 K, 457, fig. 17 ("camels").
1918 D, 144.
1924 C, 186.
1924 E, 745.
1928 B, 968, 980, 981, fig. 16.
Matthew and Cook 1909 A, 367, 395.
Meckel, J. F. 1825 A ("camels").
Merriam, J. C. 1910 C, 52 ("camels").
1915 F, 259 ("camels").
1919 A, 512.
Middleton, J. 1844 A, 286 ("camels").
Montgomery, T. H. 1901 A, 21734 ("camels").
Nehring, A. 1901 A, 264 ("cameliden").
1901 B, 189 ("kamele").
O'Harra, C. C. 1910 A, 114, 145.
1920 A, 132.
Osborn, H. F. 1905 D, 315 ("camels").
1905 H, 222, fig. 5.
1905 I, 101.
1906 C, 776.
1909 D, 123.
1910 B, 608.
1917 B, 262, 292 ("camels").
1926 A, 188 ("camel").
Owen, R. 1868 A, 868.
Palacký, J. 1903 B, 306 ("cameliden").
Palmer, T. S. 1904 A, 920 (Camelidæ, with subfamilies).
Pander and Alton 1823 A, 7, pl. iii ("kameele").
Paulli, S. 1900 A, 203, pl. x; text-figs. 14-19 (Camelus, Auchenia).
Peterson, O. A. 1908 A, 300.
1911 B, 271.
1912 B, 166.
Pictet, F. J. 1853 A, 344 ("camélides").
Rehs, J. 1914 A, 48.
Scharff, R. F. 1911 A, 86, 116, 337, 406 ("cameliden").
Schlosser, M. 1899 T, 453 ("cameliden").
1901 D, 462.
1911 A, 165.
Schmidt, O. 1886 A, 154.
Schuchert, C. 1915 A, 934.
Schuchert and Levene 1927 A, 336 ("camels").
Schwarz, E. 1924 A, 420.
Sclater, P. L. 1866 A, 403.
Scott, W. B. 1896 D, 47, 57, 59 ("camels").
1913 A, 362, 386, 677.
1916 A, 115 ("camels").
1917 A, 174 ("camels").
1924 A, 438 ("camels").
1928 A, 330 ("camels").
Stremme, H. 1911 A, 88.
Stromer, E. 1912 A, 198.
Terra, P. 1911 A, 326.
Toldt, C. 1905 A, 332 ("cameliden").
Trouessart, E. L. 1905 A, 671.
Underhill, B. M. 1910 A, 81.
Upham, W. 1902 A, 149 ("camels").
1903 C, 22679 ("camels").
Van Bemmelen, J. F. 1918 A, 571.
Wallace, A. R. 1876 A, I, 112, 138; II, 216.
Weber, M. 1904 A, 585.
Williston, S. W. 1910 G, 595 ("camels").
Winge, H. 1906 A, 70, 97 (Camelidæ, Camelini).
Woodward, A. S. 1898 D, 336 ("camels").
1917 D, lxxi ("camels").
Zittel, K. A. 1897 A, 126 ("cameliden").
Zittel and Schlosser 1911 A, 484.
1923 A, 573.

POËBROTHERIINÆ Zittel.

Zittel, K. A. 1893 B, 361 (Poëbrotherinæ).
Hay, O. P. 1902 A, 675.
Zittel and Schlosser 1911 A, 488.
1923 A, 575.

CAMELODON Granger. Type *C. arapahovius* Granger.

Granger, W. 1910 A, 248.

Camelodon arapahovius Granger.

Granger, W. 1910 A, 248, fig. 4.
Zdansky, O. 1926 B, 8.
Upper Eocene (Uinta); Wyoming.

PROTYLOPUS Wortman. Type *P. petersoni* Wortman.

Hay, O. P. 1902 A, 675.
Abel, O. 1914 A, 169.
1919 A, 808.
Andrews, C. W. 1916 A, 2.
Beddard, F. E. 1902 A, 287.
Boas, J. E. V. 1914 B, 590.
Boule and Thevenin 1920 A, 194.
Cossmann, M. 1899 B, 83.
Granger, W. 1910 A, 249.
Gregory, W. K. 1920 A, 193.
Haug, E. 1911 A, 1528.
Kampfen, P. N. 1905 A, 596.
Lull, R. S. 1917 B, 632, 633, 634, fig. 231.
Lydekker, R. 1904 B, 26.
Matthew, W. D. 1908 A, 555.
1909 C, 103.
1910 A, 39, 42.
1915 A, 244.
1915 K, 474.
1924 E, 748.
1928 B, 980.
O'Harra, C. C. 1920 A, 137, fig. 71.
Osborn, H. F. 1905 I, 101.
1910 B, 170, 555.
Palmer, T. S. 1904 A, 587, 921.
Peterson, O. A. 1911 B, 271.
Scharff, R. F. 1911 A, 407.
Schlosser, M. 1901 D, 466.
1904 C, 95.
Scott, W. B. 1913 A, 267, 397, 398, 400, 401, figs. 213, 214.
1917 A, 115, 117.
Stehlin, H. G. 1910 A, 1088.
Terra, P. 1911 A, 327.
Troxell, E. L. 1920 A, 392.
Weber, M. 1904 A, 659, 661, 662.
Weber and Abel 1928 A, 559, 561.
Zdansky, O. 1926 B, 21, 22, 30.
Zittel and Schlosser 1911 A, 484.
1923 A, 574, 669.

Protylopus annectens Peterson.

Peterson, O. A. 1919 A, 91, pl. xxxvii, fig. 14; text-fig. 15.
Upper Eocene (Uinta); Utah.

Protylopus petersoni Wortman.

Hay, O. P. 1902 A, 675.
Abel, O. 1913 B, 742, fig. 60.
1914 A, 169, fig. 125.
1920 A, 437, fig. 663.
Beddard, F. E. 1902 A, 288.
Boule and Thevenin 1920 A, 194.
Matthew, W. D. 1909 C, 100.
O'Harra, C. C. 1920 A, 135.
Osborn, H. F. 1904 F, 15.
Peterson, O. A. 1919 A, 88, fig. 14.
Schlosser, M. 1901 D, 463.
Scott, W. B. 1913 A, 399, fig. 212.
Stromer, E. 1912 A, 200, fig. 184.
Trouessart, E. L. 1905 A, 671.
Weber, M. 1904 A 659, fig. 473.
Weber and Abel 1928 A, 560, fig. 376.
Upper Eocene (Uinta); Utah.

EOTYLOPUS Matthew. Type *E. reedi* Matthew.

Matthew, W. D. 1910 A, 36, 42.
1915 K, 420.
1928 B, 980.
Osborn, H. F. 1910 B, 550.
Peterson, O. A. 1919 A, 92.
Scott, W. B. 1913 A, 257, 362.
Zittel and Schlosser 1923 A, 574.

Eotylopus reedi Matthew.

Matthew, W. D. 1910 A, 36, figs. 1-5.
Gregory, W. K. 1912 F, 287.
Peterson, O. A. 1912 B, 166.
Oligocene (Lower); Wyoming.

POËBROTHERIUM Leidy. Type *P. wilsoni* Leidy.

Hay, O. P. 1902 A, 675.
Abel, O. 1913 B, 742.
1914 A, 169.
1919 A, 808.
Andrews, C. W. 1916 A, 2.
Baur, G. 1886 N, 117.
Beddard, F. E. 1902 A, 288.
Boas, J. E. V. 1914 B, 591, 592, figs. 40, 41.
Boule and Thevenin 1920 A, 194.
Cope, E. D. 1880 U, 155, 156.
Depéret, C. 1907 B (Pæbrotherium).
Gaudry, A. 1891 C, 146.
Giebel, C. G. 1883 A, 135.
Gregory, W. K. 1910 A, 402.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 376.
Kampfen, P. N. 1905 A, 595.
Laloy, L. 1907 A, 586.
Leche, W. 1904 A, 220.
Lobley, J. L. 1908 A, 213.
Loomis, F. B. 1910 B, 312, 321.
1925 E, 596, figs. 9, 10.
1928 A, 137.
Lull, R. S. 1917 B, 632, 634, fig. 231.
1921 C, 393.
Lydekker, R. 1903 D, 124.
1904 B, 26, figs. 2, 3.
Matthew, W. D. 1901 B, 369, 422, 431, 441.
1903 B, 225.
1904 B, 214.
1908 A, 549, 552, 555.
1909 C, 111.

Matthew, W. D. 1910 A, 37, 40.
1915 A, 244.
1915 K, 420, 474.
1924 E, 748.
1928 B, 980.
O'Harra, C. C. 1920 A, 137, fig. 71.
Osborn, H. F. 1905 H, 222 (Proëbrotherium).
1905 I, 104, 106.
1909 D, 64.
1910 B, 220, 550.
Palmer, T. S. 1904 A, 298, 920 (Gomphotherium); 553, 921 (Poëbrotherium).
Peterson, O. A. 1904 A, 435.
1911 B, 271.
1912 B, 166.
1919 A, 89.
Pictet, F. J. 1853 A, 350.
Schlosser, M. 1901 A, 491.
1901 D, 464, 466, 467.
Schmidt, O. 1886 A, 156.
Scott, W. B. 1913 A, 688, figs. 133, 213, 214.
1917 A, 115, 117.
Sinclair, W. J. 1924 A, 129.
Terra, P. 1911 A, 327.
Trouessart, E. L. 1905 A, 671.
Troxell, E. L. 1917 B, 381.
1920 A, 392.
Wallace, A. R. 1876 A, I, 138; II, 217.
Weber, M. 1904 A, 659.
Weber and Abel 1928 A, 559, fig. 377.
Winge, H. 1906 A, 101.
Zdansky, O. 1926 B, 21, 22, 30.
Zittel and Schlosser 1911 A, 485.
1923 A, 575, 671.

Poëbrotherium andersoni Troxell.

Troxell, E. L. 1917 B, 381, figs. 1-5.
Loomis, F. B. 1928 A, 139, figs. 2, 3.
O'Harra, C. C. 1920 A, 153.
Sinclair, W. J. 1924 A, 102, 129, fig. 10.
Troxell, E. L. 1920 A, 392.
Middle Oligocene (Brule); Nebraska.

Poëbrotherium eximium Hay.

Hay, O. P. 1902 A, 675.
Abel, O. 1913 B, 742, fig. 61 (P. wilsoni).
Beddard, F. E. 1902 A, 288, fig. 150 (P. wilsoni).
Cook, H. J. 1912 D, 38.
Cossmann, M. 1899 B, 83 (P. wilsoni).
Loomis, F. B. 1928 A, 139, figs. 2, 3.
Matthew, W. D. 1904 B, 214.
1909 C, 106.
O'Harra, C. C. 1910 A, 115 (P. eximium); fig. 17 (P. wilsoni).
1920 A, 132, fig. 68 (P. wilsoni); 153 (P. eximium).
Sinclair, W. J. 1924 A, 129.
Trouessart, E. L. 1905 A, 671.
Troxell, E. L. 1917 B, 387.
Middle Oligocene (Brule); South Dakota, Colorado, Nebraska.

Poëbrotherium labiatum Cope.

Hay, O. P. 1902 A, 675.
Cook, H. J. 1912 D, 38.
Cope, E. D. 1885 FF, 793, fig. 2.
1891 N, 62, 63, fig. *e*.
Cope and Matthew 1915 A, pl. cxv; pl. cxv *a*, figs. 1-12.
Loomis, F. B. 1928 A, 137, figs. 2, 3.
Lull, R. S. 1917 B, 635, fig. 232.
Matthew, W. D. 1901 B, 358, 422, 423.
1904 B, 214.
1909 C, 106.
O'Harra, C. C. 1910 A, 116.
1920 A, 153, pl. xlvi.
Schlosser, M. 1901 D, 464.
Scott, W. B. 1913 A, 395, fig. 211.
Sinclair, W. J. 1924 A, 129.
Trouessart, E. L. 1905 A, 671.
Troxell, E. L. 1917 B, 387.
Zdansky, O. 1926 B, 12, 19.
Middle Oligocene (Brule); Nebraska, Colorado.

Poëbrotherium wilsoni Leidy.

Hay, O. P. 1902 A, 676.
Abel, O. 1914 A, 169, fig. 126.
Cook, H. J. 1912 D, 38.
Cope and Matthew 1915 A, pl. cxv *a*, figs. 13-21.
Darton, N. H. 1901 A, 543.
1905 A, 45, 173.
Gervais, P. 1859 A, 360 (Poebrotherium).
Giebel, C. G. 1883 A, pl. xliv.
Lambe, L. M. 1908 A, 10, 30, pl. viii, figs. 8, 9.
Loomis, F. B. 1910 B, 309.
1924 B, 3, figs. 2, 3.
1928 A, 137, figs. 1-3.
Matthew, W. D. 1901 B, 358, 422.
1904 B, 214.
1909 C, 106.
O'Harra, C. C. 1910 A, 17, 115, fig. 3.
1920 A, 24, 132, 135, pl. xlvi; text-figs. 2, 68.
Osborn, H. F. 1904 F, 15.
Schlosser, M. 1901 D, 464.
Scott, W. B. 1913 A, 399, fig. 212.
Sinclair, W. J. 1924 A, 129.
Trouessart, E. L. 1905 A, 671.
Troxell, E. L. 1917 B, 387.
Zdansky, O. 1926 B.
Zittel and Schlosser 1911 A, 485, fig. 676.
1923 A, 574, fig. 717.
Middle Oligocene (Brule); S. Dakota, Colorado, Nebraska.

Poëbrotherium sp. indet.

Matthew, W. D. 1901 B, 356, 369, 422.
1909 C, 114. Lower Miocene (Fort Logan); Montana.
Sinclair, W. J. 1924 A, 102. Oligocene (White River); South Dakota.

PROTOMERYX Leidy.

Type *P. halli* Leidy.

Hay, O. P. 1902 A, 676.
Abel, O. 1913 B, 742.
1914 A, 170.
1919 A, 808.
1926 B, 359.
Beddard, F. E. 1902 A, 289 (Gomphotherium).

Giebel, C. G. 1883 A, 135.
Kampfen, P. N. 1905 A, 595 (Gomphotherium).
Loomis, F. B. 1911 B, 65.
Lull, R. S. 1917 B, 634, 636.
1921 C, 404 (Protomeryx, Gomphoides).
Lydekker, R. 1904 B, 27 (Gomphotherium).
Matthew, W. D. 1901 B, 370, 422 (Protomeryx, Gomphotherium).
1904 B, 212, 214 (Protomeryx, Gomphotherium).
1909 C, 120.
1915 A, 244.
Merriam and Sinclair 1903 A, 95.
Osborn, H. F. 1909 D, 134.
1910 B, 286.
1912 G, 247, 249.
Palmer, T. S. 1904 A, 583, 921.
Peterson, O. A. 1904 A, 472.
Schlosser, M. 1901 D, 464 (Gomphotherium).
Scott, W. B. 1913 A, 241, 251, 391.
Trouessart, E. L. 1905 A, 672.
Troxell, E. L. 1917 B, 381 (Gomphotherium).
Wallace, A. R. 1876 A, I, 138; II, 217.
Weber, M. 1904 A, 660.
Weber and Abel 1928 A, 560.
Winge, H. 1906 A, 102 (Gomphotherium).
Zittel and Schlosser 1923 A, 575, 672.

Protomeryx campester Matthew.

Matthew, W. D. 1901 B, 422.
1901 B, 214.
Trouessart, E. L. 1905 A, 672.
Upper Oligocene; Colorado.

Protomeryx cedrensis Matthew.

Matthew, W. D. 1901 B, 358, 422, text-fig. 26.
Cook, H. J. 1912 D, 43 (This species?).
Matthew, W. D. 1909 C, 114 (This genus?).
Peterson, O. A. 1906 C, 24, 32.
Trouessart, E. L. 1905 A, 672.
Lower Miocene (Upper Harrison); Nebraska.

Protomeryx halli Leidy.

Hay, O. P. 1902 A, 676.
Matthew, W. D. 1901 B, 358.
1904 B, 214.
1909 C, 114.
O'Harra, C. C. 1920 A, 157.
Lower Miocene (Upper Rosebud); South Dakota.

Protomeryx leonardi Loomis.

Loomis, F. B. 1911 B, 68, fig. 3.
Cook, H. J. 1912 D, 43.
O'Harra, C. C. 1920 A, 157.
Lower Miocene (Upper Harrison); Nebraska.

Protomeryx sp. indet.

Matthew, W. D. 1909 C, 114. Miocene (Lower); South Dakota.
Sinclair, W. J. 1904 B, 10. Oligocene (John Day); Oregon.
Smith, D. T. 1904 A, 10. Tertiary (Miocene or Pliocene); Nevada.

PSEUDOLABIS Matthew. Type *P. dakotensis* Matthew.

Matthew, W. D. 1904 B, 211, 215.
Haug, E. 1911 A, 1529.
Matthew, W. D. 1909 C, 111.
Osborn, H. F. 1905 I, 104.
1910 B, 227, 550.
Trouessart, E. L. 1905 A, 671.

Pseudolabis dakotensis Matthew.

Matthew, W. D. 1904 B, 211, 215.
Cook, H. J. 1912 D, 39 (Pseudolobis).
Lull, R. S. 1921 C, 393.
Matthew, W. D. 1909 C, 109.
O'Harra, C. C. 1910 A, 116.
1920 A, 154
Upper Oligocene (Brule); region of South Dakota, Nebraska, Wyoming.

Pseudolabis matthewi Lull.

Lull, R. S. 1921 C, 392, fig. 1 [Pseudolabis (Paralabis, new subg.)].
Upper Oligocene (Protoceras); South Dakota.

OXYDACTYLUS Peterson. Type *O. longipes* Peterson.

Peterson, O. A. 1904 A, 434.
Abel, O. 1926 B, 359.
Andrews, C. W. 1916 A, 2.
Barbour, E. H. 1906 C, 781.
Haug, E. 1911 A, 1705.
Lull, R. S. 1917 B, 634, 637, fig. 234.
1921 C, 404.
Loomis, F. B. 1909 B, 196.
1910 B, 312.
1911 B, 65.
1925 E, 591, figs. 5, 6, 9, 10.
1928 A, 139.
Matthew, W. D. 1904 B, 214.
1909 C, 120.
1915 A, 244.
1924 C, 186.
1924 E, 748.
O'Harra, C. C. 1920 A, 136.
Osborn, H. F. 1907 F, 872.
Osborn, H. F. 1909 D, 72, 74, 78.
1910 B, 236, 286, 291, 550; fig. 144.
1912 G, 247, 249.
1918 A, 13.
Peterson, O. A. 1906 C, 22.
1908 A, 289.
1912 B, 167.
Riggs, E. S. 1909 A, 196.
Scott, W. B. 1913 A, 241, 391.
Sellards, E. H. 1916 B, 92.
Trouessart, E. L. 1905 A, 673.
Zittel and Schlosser 1923 A, 575, 672.

Oxydactylus brachyodontus Peterson.

Peterson, O. A. 1904 A, 469, pls. xi-xiv.
Cook, H. J. 1912 D, 43.
Loomis, F. B. 1911 B, 66.
Matthew, W. D. 1904 B, 214.
1909 C, 114 (O. brachyceps).

O'Harra, C. C. 1920 A, 158 (O. brachyceps).
Trouessart, E. L. 1905 A, 673.
Lower Miocene (Upper Harrison); Nebraska.

Oxydactylus campestris Cook, H. J.

Cook, H. J. 1909 B, 188.
1912 D, 41.
Loomis, F. B. 1911 B, 68.
O'Harra, C. C. 1920 A, 158.
Lower Miocene (Lower Harrison); Nebraska.

Oxydactylus gibbi Loomis.

Loomis, F. B. 1911 B, 67, fig. 2.
Cook, H. J. 1912 D, 43.
O'Harra, C. C. 1920 A, 158.
Lower Miocene (Upper Harrison); Wyoming.

Oxydactylus longipes Peterson.

Peterson, O. A. 1904 A, 434, pls. iv-x, xv.
Cook, H. J. 1909 B, 188.
1912 D, 43.
Davidson, P. 1923 A, 400, 407.
Loomis, F. B. 1911 B, 66.
Lull, R. S. 1921 C, 402, 403.
Matthew, W. D. 1904 B, 214.
1909 C, 114.
O'Harra, C. C. 1910 A, 115, pl. xlix.
1920 A, 133, fig. 69; 157.
Peterson, O. A. 1908 A, 288.
1911 B, 270.
Scott, W. B. 1913 A, 392, 393, figs. 209, 210.
Trouessart, E. L. 1905 A, 673.
Zdansky, O. 1926 B.
Lower Miocene (Upper Harrison); Nebraska.

Oxydactylus longirostris Peterson.

Peterson, O. A. 1911 A, 260, pl. xxxvii-xl.
Cook, H. J. 1912 D, 43.
O'Harra, C. C. 1920 A, 158.
Lower Miocene (Upper Harrison); Nebraska.

Oxydactylus lulli Loomis.

Loomis, F. B. 1911 B, 66, fig. 1.
Cook, H. J. 1912 D, 43.
O'Harra, C. C. 1920 A, 158.
Lower Miocene (Upper Harrison); Wyoming, Nebraska.

Oxydactylus sp. indet.

Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Loomis, F. B. 1923 A, 222. Miocene (Lower Harrison); Nebraska.
Osborn, H. F. 1919 A, 16. Miocene (Alum Bluff); Florida.
Sellards, E. H. 1916 B, 89, pl. ii, fig. 4. Miocene (Alum Bluff); Florida.

MIOLABINÆ Hay.

Hay, O. P. 1902 A, 676.
Palacký, J. 1903 B, 312, 318 ("protolabinen").
Trouessart, E. L. 1905 A, 672 (Camelopsinæ).
Zittel and Schlosser 1911 A, 485 (Protolabinæ).
1923 A, 570 (Protolabinæ).

MIOLABIS Hay. Type *Protolabis transmontanus* Cope.

Hay, O. P. 1902 A, 676.
Abel, O. 1913 B, 743 (Protolabis).
Lull, R. S. 1921 C, 404.
Matthew, W. D. 1901 B, 424 (Protolabis, Miolabis).
1904 B, 211, 214.
1907 A, 173, 176.
1909 C, 120.
1915 A, 244.
1924 C, 70.
Osborn, H. F. 1909 D, 66, 74, 78.
1910 B, 294, 550.
Palmer, T. S. 1904 A, 426, 921.
Scott, W. B. 1913 A, 391.
Trouessart, E. L. 1905 A, 672 (Subg. of Protolabis).
Weber, M. 1904 A, 660.
Winge, H. 1906 A, 102.

Miolabis tenuis Matthew.

Matthew, W. D. 1924 C, 67, 191, fig. 56.
Middle Miocene (Sheep Creek); Nebraska.

Miolabis transmontanus (Cope).

Hay, O. P. 1902 A, 676.
Cope, E. D. 1891 N, 81, fig. 59 (Protolabis).
Cope and Matthew 1915 A, pl. cliii, figs. 1, 2 (Protolabis, Miolabis).
Dall and Harris 1892 A, 282 (Protolabis).
Matthew, W. D. 1901 B, 423, 424, 426, 427 (Protolabis).
1904 B, 214.
1907 A, 176.
1909 C, 115.
1924 C, 190.
Merriam and Sinclair 1907 A, 196.
Palacký, J. 1903 B, 312 (Protolabis).
Schlosser, M. 1901 D, 464, 467 (Protolabis).
Trouessart, E. L. 1905 A, 672.
Middle Miocene (Mascall); Oregon.

PARATYLOPUS Matthew. Type *P. primævus* Matthew.

Matthew, W. D. 1904 B, 211 (Subgenus of Miolabis).
Boule and Thevenin 1920 A, 194.
Cook, H. J. 1912 D, 38.
Haug, E. 1911 A, 1528, 1705.
Lull, R. S. 1917 B, 634, 637.
Matthew, W. D. 1908 A, 552.
1909 C, 111.
Osborn, H. F. 1905 H, 222.
1905 I, 104.
1909 D, 66.
1912 G, 246.

Thorpe, M. R. 1921 A, 222.
Trouessart, E. L. 1905 A, 672 (Subg. of Protolabis).
Winge, H. 1906 A, 102.
Zittel and Schlosser 1911 A, 485.
1923 A, 575, 672.

Paratylopus cameloides (Wortman).

Hay, O. P. 1902 A, 676 (Protomeryx).
Lull, R. S. 1921 C, 394, figs. 2-4 [P. (Gomphotherium)].
Matthew, W. D. 1901 B, 214 (Miolabis).
1909 C, 109.
Merriam, J. C. 1901 A, 297 (Gomphotherium. This species?).
Merriam and Sinclair 1907 A, 187, 191, 192 [Miolabis (Paratylopus)].
Osborn, H. F. 1909 D, 68.
Peterson, O. A. 1904 A, 469 (Protomeryx).
Schlosser, M. 1901 D, 464 (Gomphotherium).
Trouessart, E. L. 1905 A, 672.
Upper Oligocene (John Day); Oregon.

Paratylopus primævus Matthew.

Matthew, W. D. 1904 B, 211, 214 [Miolabis (Paratylopus)].
1909 C, 106.
O'Harra, C. C. 1920 A, 153.
Trouessart, E. L. 1905 A, 672.
Middle Oligocene (Brule); South Dakota.

Paratylopus sternbergi (Cope).

Hay, O. P. 1902 A, 676 (Protomeryx).
Cope and Matthew 1915 A, pl. cxvi (Poëbrotherium; Paratylopus).
Lull, R. S. 1921 C, 395.
Matthew, W. D. 1901 B, 423 (Protomeryx).
1904 B, 214 (Miolabis).
1909 C, 109.
Merriam and Sinclair 1907 A, 187 [Miolabis (Paratylopus)].
Osborn, H. F. 1909 D, 68.
Schlosser, M. 1901 D, 464, 466 (Gomphotherium).
Sternberg, C. H. 1881 A, 541 (Protomeryx).
1909 C, 188.
Trouessart, E. L. 1905 A, 672.
Troxell, E. L. 1917 B, 388 (Gomphotherium).
Zittel and Schlosser 1911 A, 485, fig. 677.
1923 A, 575, fig. 718.
Upper Oligocene (John Day); Oregon.

Paratylopus wortmani Lull.

Lull, R. S. 1921 C, 400, fig. 5.
Zdansky, O. 1926 B, 3.
Upper Oligocene (Upper John Day); Oregon.

PROCAMELUS Leidy. Type *P. occidentalis* Leidy.

Hay, O. P. 1902 A, 677.
Abel, O. 1913 B, 743.
1914 A, 170.
1919 A, 808.
Andrew, C. W. 1916 A, 2.
Baur, G. 1886 N, 117.
Beddard, F. E. 1902 A, 289.
Boas, J. E. V. 1914 B, 592, fig. 40.
Boule and Thevenin 1920 A, 194.
Cope, E. D. 1880 U, 157.
Davidson, P. 1923 A, 400.
Douglass, E. 1907 B, 98.
1909 A, 477.
Freudenberg, W. 1922 A, 10.
Frick, C. 1926 A, 20.
Giebel, C. G. 1883 A, 135.
Gilbert, F. 1910 B, 37.
Gregory, W. K. 1920 A, 187, fig. 151.
Haug, E. 1911 A, 1705, 1706.
Hay, O. P. 1917 I, 212 ("Camelus").
1918 B, 25.
1919 D, 373.
1923 A, 494.
1925 D, 245.
Hay, R. 1890 A, 16 (Camelus).
Heilprin, A. 1887 A, 376.
Laloy, L. 1907 A, 586.
Lee, Stone, Gale 1915 A, 34.
Lull, R. S. 1917 B, 632, 634, 636, fig. 231.
Lydekker, R. 1904 B, 27.
Matthew, W. D. 1901 B, 423, 426, 427.
1904 B, 215.
1909 C, 120.
1910 G, 155.
1915 A, 244.
1918 A, 216.
1924 E, 748.
Matthew and Cook 1909 A, 367, 405, 407.
Merriam, J. C. 1907 A, 381.
1915 F, 257 (Procamelas).
1917 A, 443.
O'Harra, C. C. 1920 A, 136.
Osborn, H. F. 1909 D, 79, 80, 81.
1910 B, 628.
1912 G, 248.
1918 A, 23, 24, 26, 27, 29, 33.
Palmer, T. S. 1904 A, 565, 921.
Pavlow, M. 1904 A, 118, 127.
Peterson, O. A. 1904 A, 471.
Schlosser, M. 1901 D, 464, 466.
1903 I, 97.
Schmidt, O. 1886 A, 156.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 391, 400, 401, figs. 213, 214.
1917 A, 115, 117.
Sellards, E. H. 1914 A, 162.
1916 B, 94.
Terra, P. 1911 A, 326.
Trouessart, E. L. 1905 A, 673.
Troxell, E. L. 1917 B, 385.
Wallace, A. R. 1876 A, I, 130, 138; II, 217.
Weber, M. 1904 A, 660.
Weber and Abel 1928 A, 560, 561.
Winge, H. 1906 A, 103.
Woodward, A. S. 1898 D, 332.
Zittel and Schlosser 1911 A, 485.
1923 A, 575, 673, 679, 680.

Procamelus benedentatus Hay.

Hay, O. P. 1924 A, 12, pl. v.
Upper Miocene (Fleming); Texas.

Procamelus castilli "Cope."

Villada, M. M. 1903 A, 448 (Auchenia).
Not otherwise known to the present writer.

Procamelus coconinensis Hay.

Hay, O. P. 1921 A, 622, pl. cxxii, figs. 4-6; pl. cxxiii, fig. 5.
1921 B, 403 ("camel").
1922 A, 446 ("camel").
1923 A, 9.
1927 D, 129.
Pleistocene (Nebraskan?); Arizona.

Procamelus concerptus Hay.

Hay, O. P. 1924 A, 11, pl. iv.
Upper Miocene (Fleming); Texas.

Procamelus edensis edensis Frick.

Frick, C. 1921 A, 367, 371, figs. 74, 81.
Stock, C. 1925 A, 21.
Pliocene (Eden); California.

Procamelus edensis raki Frick.

Frick, C. 1921 A, 370, 386, figs. 76-79, 82.
Stock, C. 1925 A, 21.
Pliocene (Eden); California.

Procamelus elrodi Douglass.

Douglass, E. 1909 B, 159, pls. ix-xi.
Scott, W. B. 1913 A, 232, fig. 126.
Upper Miocene; Montana.

Procamelus gracilis Leidy.

Hay, O. P. 1902 A, 677.
Frick, C. 1921 A, 374.
Gidley, J. W. 1903 C, 634.
Hay, O. P. 1924 A, 12.
Louderback, G. D. 1924 A, 9 (This species?).
Mansuy, —— 1923 A, 102 (P. granilis).
Matthew, W. D. 1901 B, 423, 426, 427.
1909 C, 117.
1918 A, 187 (This species?).
1924 C, 67 (This genus and species?).
Merriam, J. C. 1916 A, 189, figs. 30-34 (This species?).
1919 A, 453 (This species?).
Scott, W. B. 1913 A, 399, fig. 212.
Trouessart, E. L. 1905 A, 673.
Weber and Abel 1928 A, 560.
Upper Miocene (Arikaree); Nebraska; California, New Mexico, Texas.

Procamelus inæquidens Matthew.

Matthew, W. D. 1915 in Cope and Matthew 1915 A, pl. cliv, figs. 1-3 (Procamelus, Protolabis).
Upper Miocene (Republican River); Nebraska.

Procamelus lacustris Douglass.

Hay, O. P. 1902 A, 677.
Douglass, E. 1903 A, 154.
Matthew, W. D. 1901 B, 423.
1909 C, 117.
Trouessart, E. L. 1905 A, 673.
Miocene (Madison Valley); Montana.

Procamelus leptognathus Cope.

Hay, O. P. 1902 A, 678.
Dumble, E. T. 1894 A, 556.
Gidley, J. W. 1903 C, 634.
Hay, O. P. 1924 A, 10, 15, pl. ii, fig. 5; pl. iii, fig. 4.
Matthew, W. D. 1901 B, 423.
1909 C, 117.
Montgomery, T. H. 1904 A, 57.
Upper Miocene (Clarendon, Fleming); Texas.

Procamelus longurio Hay.

Hay, O. P. 1921 A, 624, pl. cxx, fig. 8; pl. cxxiii, figs. 3, 4; pl. cxxiv, fig. 4.
1921 B, 403 ("camel").
1922 A, 446 ("camel").
1923 A, 9.
1927 D, 97, 129.
Pleistocene (Nebraskan?); Arizona.

Procamelus madisonius Douglass.

Hay, O. P. 1902 A, 678.
Douglass, E. 1903 A, 154.
1909 B, 164, figs. 1, 2.
Matthew, W. D. 1901 B, 423.
1909 C, 117.
Trouessart, E. L. 1905 A, 673.
Miocene (Madison Valley); Montana.

Procamelus major (Leidy).

Hay, O. P. 1902 A, 678.
1921 A, 608, 622, 637.
1923 A, 494.
1927 D, 104, 105.
Lindgren and Drake 1904 A, 3 (P. major? This species?).
Matson and Clapp 1909 A, 136 (Auchenia); 137 (Procamelus, Pliauchenia).
Matthew, W. D. 1909 C, 117.
Merriam, J. C. 1917 A, 432 (This species?); 439.
Merrill, G. P. 1907 A, 24 (Auchenia); 55 (Procamelus).
Sellards, E. H. 1916 B, 94.
Spencer, J. W. 1895 A, 136.
Trouessart, E. L. 1905 A, 673.
Pliocene or Pleistocene? (Alachua, Bone Valley); Florida. (Idaho?); Idaho.

Procamelus minimus (Leidy).

Hay, O. P. 1902 A, 678.
Felix and Lenk 1891 A, 126, pl. xxx, fig. 2 (Auchenia. This species?).
Freudenberg, W. 1921 A, 139 (Auchenia. This species?).
1922 A, 5 (Auchenia. This species?).
Hay, O. P. 1921 A, 637.
1923 A, 494.
Matson and Clapp 1909 A, 136 (Auchenia).
Matthew, W. D. 1909 C, 117.
Merrill, G. P. 1907 A, 24 (Auchenia); 55, 56 (Procamelus).
Spencer, J. W. 1895 A, 136.
Trouessart, E. L. 1905 A, 673.
Villada, M. M. 1903 A, 448 (Auchenia).
Pliocene? or Pleistocene? (Alachua; Florida Mexico?

Procamelus minor (Leidy).

Hay, O. P. 1902 A, 678.
Allen, G. M. 1926 A, 452.
Hay, O. P. 1919 C, 106.
1921 A, 637.

Hay, O. P. 1923 A, 494.
Matson and Clapp 1909 A, 136 (Auchenia); 137 (Procamelus minor, P. medius; Pliauchenia minor, P. media).
Matthew, W. D. 1909 C, 117.
Merriam, J. C. 1917 A, 439 (P. minor, P. medius).
Merrill, G. P. 1907 A, 24 (Auchenia); 56 (Procamelus).
Sellards, E. H. 1916 B, 94, 100, 103 (P. minor); 94 (P. medius).
Spencer, J. W. 1895 A, 136.
Trouessart, E. L. 1905 A, 673.
Pliocene? or Pleistocene? (Alachua); Florida.

Procamelus occidentalis Leidy.

Hay, O. P. 1902 A, 678.
Barbour and Cook 1917 B, 180.
Baur, G. 1886 N, 118.
Beddard, F. E. 1902 A, 289.
Black, D. 1915 A, 350, fig. 14.
Cope, E. D. 1885 FF, 798, fig. 9.
Felix and Lenk 1891 A, 126, 137, pl. xxx, fig. 2 (Auchenia minima?).
Gidley, J. W. 1904 A, 245.
Matthew, W. D. 1901 B, 423, 426, 427 (Procamelus); 424 (Protolabis).
1909 C, 117.
1918 A, 187 (This species?).
Merrill, G. P. 1907 A, 41 (Homocamelus caninus); 56 (P. occidentalis).
O'Harra, C. C. 1920 A, 159.
Osborn, H. F. 1904 I, 35 (Camelus).
Schlosser, M. 1901 D, 465.
Trouessart, E. L. 1905 A, 673.
Zdansky, O. 1926 B.
Miocene (Arikaree); South Dakota, Nebraska: Pliocene (Snake Creek and Valentine); Nebraska.

Procamelus robustus Leidy.

Hay, O. P. 1902 A, 678.
Barbour and Cook 1917 B, 180 (This species?).
Gidley, J. W. 1903 C, 634.
1904 A, 245.
Matthew, W. D. 1901 B, 358, 423, 426 (P. robustus); 423, 424 (P. prehensilis).
1918 A, 187 (This species?).
Merrill, G. P. 1907 A, 56, 57.
O'Harra, C. C. 1920 A, 159.
Schlosser, M. 1901 D, 464.
Trouessart, E. L. 1905 A, 673.
Miocene (Arikaree); South Dakota, Nebraska, Texas: Pliocene? (Snake Creek and Valentine); Nebraska.

Procamelus sp. indet.

Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Cook, H. J. 1912 D, 45. Pliocene (Snake Creek); Nebraska.
Cope, E. D. 1885 M, 494. Miocene; Mexico.
Deussen, A. 1924 A, 97 (This genus?). Miocene (Oakville); Texas.
Douglass, E. 1903 A, 153. Miocene (Flint Creek); Montana.
Freudenberg, W. 1921 A, 131.
1922 A. Pliocene; Mexico.
Frick, C. 1921 A, 321, 322, figs. 30, 31 ("camelid," This genus?). Pliocene (San Timoteo); California: 365, 367, fig. 73; 372, fig. 86; 373, figs. 87, 88; 374, figs. 89, 90; 375, figs. 73, 93, 94; 376, pl. xlviii, fig. 3; text-figs. 92-94 (This genus?). Pliocene (Eden); California.
Gidley, J. W. 1918 C, 180. Late Tertiary (Flaxville); Montana.
1922 B, 120 (This genus?). Pleistocene (San Pedro Valley); Arizona.
Gilbert, G. K. 1875 A, 543 Pliocene?; New Mexico.
Hay, O. P. 1923 A, 494.
1924 D, 169, 312. Pliocene? Montana.
1927 D, 311. Pleistocene; Arizona, California, Idaho, Oregon.
Lucas, F. A. 1900, in Lindgren, W. 1900 A, 99 ("P. major"). Pleistocene? Idaho.
1900 H, 99. Pleistocene? Idaho.
Lull, R. S. 1920 A, 85. Miocene or Pliocene; Nebraska.
Matthew, W. D. 1909 C, 117.
1915 L, 472 (This genus?). Miocene (Fleming); Texas.
1923 A, 12 (This genus?). Lower Pliocene (Upper Snake Creek); Nebraska.
Merriam, J. C. 1911 E, 168 (This genus?). Upper Miocene; California.
1913 E, 381, fig. 6 (This genus?). Miocene (Orindan); 227, fig. 44 (This genus?). Pleistocene (Etchegoin); California.
1914 C, 646. Miocene (Temblor); California.
1915 E, 197, 202, figs. 16-18, 31, 44 (This genus?).
1917 A, 425 (This genus?); 426, 428, 431, 432, 438.
1919 A, 525, 527. Lower Pliocene (Ricardo); Upper Miocene (Barstow); California; 450, 513, 579, figs. 90-99, 103, 105, 216-220 (This genus?).
Sinclair, W. J. 1904 B, 10 ("camel"; this genus?). "Tertiary"; Nevada.
1915 A, 77 (This genus?); Nebraska.
Stock, C. 1921 A, 290, figs. 10, 11 (Alticamelus? or Procamelus?). Pliocene? (Panaca); Nevada.
1924 B, 54. Upper Miocene (Mint Canyon); California: 79. Lower Pliocene (Pico); California.
1925 A, 18. Lower Pliocene (Rattlesnake); Oregon: 21 (Eden); California.
Young and Cooper 1927 A, 1 (This genus?). Pliocene.

ALTICAMELUS Matthew. Type *Procamelus altus* Marsh.

Matthew, W. D. 1901 B, 426, 429.
Andrews, C. W. 1916 A, 2.
Haug, E. 1911 A, 1705, 1706.
Knipe, H. R. 1912 A, 158, fig.
Lull, R. S. 1904 C, 9.
Lull, R. S. 1917 B, 634, 638.
Lydekker, R. 1904 B, 28 (Alticamelas).
Matthew, W. D. 1904 B, 215.
1909 C, 120.
1910 G, 155.

Matthew, W. D. 1918 A, 216.
1924 C, 70, 186.
1924 E, 748.
Matthew and Cook 1909 A, 367, 402, 405.
Merriam, J. C. 1915 F, 257.
Osborn, H. F. 1905 D, 316.
1905 H, 222.
1905 I, 107.
1909 D, 78, 81.
1910 B, 605, fig. 169.
1912 G, 250.
1918 A, 29.
Palmer, T. S. 1904 A, 90, 920.
Peterson, O. A. 1904 A, 472.
1912 B, 167.
Schlosser, M. 1903 I, 96.
Schuchert and Levene 1927 A, 337, fig.
Scott, W. B. 1913 A, 234, 388, 391, 675.
Weber and Abel 1928 A, 561.
Winge, H. 1906 A, 103.
Zittel and Schlosser 1911 A, 486.
1923 A, 575, 673.

Alticamelus alexandræ Davidson.

Davidson, P. 1923 A, 399, figs. 1-16.
Upper Miocene (Barstow); California.

Alticamelus altus (Marsh).

Hay, O. P. 1902 A, 677 (Procamelus).
Matthew and Cook 1909 A, 402 (Procamelus).
Merriam, J. C. 1917 A, 428.
Merriam and Sinclair 1907 A, 196.
Osborn, H. F. 1918 A, 30.
Stock, C. 1925 A, 18.
Trouessart, E. L. 1905 A, 673 (A. altus, in part).
Miocene (Mascall); Pliocene (Rattlesnake); Oregon.

Alticamelus giraffinus Matthew.

Matthew, W. D. in Matthew and Cook 1909 A, 402.
Davidson, P. 1923 A, 400, 401, 402, 406.
Douglass, E. 1909 B, 162 (A. altus).
Frick, C. 1921 A, 362.
Matthew, W. D. 1901 B, 358, 423 (Procamelus altus); 426, 430, pl. xxxix (A. altus).
1909 C, 115 (A. altus).
1924 C, 72.
Osborn, H. F. 1904 F, 5, 15 (A. altus).
1909 D, 81 (A. altus).
1910 B, 293, fig. 145 (A. altus).
Peterson, O. A. 1904 A, 472 (A. altus).
Scott, W. B. 1913 A, 236, fig. 127 (A. altus).
Trouessart, E. L. 1905 A, 673 (A. altus).
Upper or Middle Miocene (Pawnee Creek); Colorado.
The authors cited as using the name *A. altus* have doubtless had in mind the type of Matthew's *A. giraffinus*.

Alticamelus priscus Matthew.

Matthew, W. D. 1924 C, 67, 187.
Middle Miocene (Sheep Creek); Nebraska.

Alticamelus procerus Matthew and Cook.

Matthew and Cook 1909 A, 402, figs. 19, 20.
Cook, H. J. 1912 D, 45.
Davidson, P. 1923 A, 400, 401, 402, 406.
Frick, C. 1921 A, 362.
Matthew, W. D. 1918 A, 187.
1923 A, 12 (This species?).
1924 C, 67, 186.
Merriam, J. C. 1917 A, 436.
Sinclair, W. J. 1915 A, 77.
Upper Miocene (Lower Snake Creek); Nebraska.

Alticamelus sp. indet.

Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Cook, H. J. 1922 B, 12, 29, fig. Pliocene (Snake Creek); Colorado. (This genus?).
Dumble, E. T. 1920 A, 231 (This genus?). Neocene (Fleming); Texas.
Matthew, W. D. 1915 L, 471 (This genus?). Miocene (Fleming); Texas.
1920 E, 231 (This genus?). Neocene (Fleming); Texas.
Matthew and Cook 1909 A, 405, 407. Pliocene (Snake Creek); Nebraska.
Merriam, J. C. 1917 A, 431 (This genus?). Pliocene (Ricardo); California; 437. Pliocene (Snake Creek); Nebraska.
1919 A, 450, 512, 527, 579, figs. 100, 104, 110, 216, 217, 221, 223, 228-230 (This genus?). Miocene (Barstow) and Pliocene (Ricardo); California.
Merriam, Stock, Moody 1925 A, 59, 87, figs. 41, 42 (This genus?). Pliocene (Rattlesnake); Oregon.
Sinclair, W. J. 1915 A, 77. Pliocene (Snake Creek); Nebraska.
Stock, C. 1921 A, 290, figs. 10, 11 (Alticamelus? or Procamelus?). Pliocene? (Panaca); Nevada.
Young and Cooper 1927 A, 5, fig.

PROTOLABIS Cope. Type *P. heterodontus* Cope.

Cope, E. D. 1876 G, 144.
Hay, O. P. 1902 A, 677 (Procamelus, in part).
Abel, O. 1914 A, 170.
1919 A, 808.
Beddard, F. E. 1902 A, 289.
Boas, J. E. V. 1914 B, 591, fig. 40.
Boule and Thevenin 1920 A, 194.
Cope, E. D. 1880 U, 157.
Depéret, C. 1907 B.
Douglass, E. 1909 A, 477.
Haug, E. 1911 A, 1706.
Hay, O. P. 1924 A, 13.
Howes, G. B. 1902 A, 523.
Laloy, L. 1907 A, 586.
Loomis, F. B. 1928 A, 139.
Lydekker, R. 1904 B, 27.
Matthew, W. D. 1901 B, 374, 424, 426, 432.
1904 B, 214.
1909 C, 120.
1915 A, 244.
1918 A, 216.
1924 E, 748.
Osborn, H. F. 1909 D, 78.
1910 B, 299, 550.

Palmer, T. S. 1904 A, 583, 921.
Pavlow, M. 1904 A, 127.
Peterson, O. A. 1904 A, 471.
1906 C, 22.
Schlosser, M. 1901 D, 466.
1903 I, 96, 184.
Schmidt, O. 1886 A, 156 (Protolabos).
Scott, W. B. 1913 A, 391.
Trouessart, E. L. 1905 A, 672.
Winge, H. 1906 A, 103.
Zittel and Schlosser 1911 A, 485.
1923 A, 575, 673.

Protolabis angustidens (Cope).

Hay, O. P. 1902 A, 677 (Procamelus).
Beddard, F. E. 1902 A, 290 (Procamelus).
Cook, H. J. 1912 D, 43.
Cope and Matthew 1915 A, pl. cliv, fig. 4 (Procamelus, Protolabis).
Matthew, W. D. 1901 B, 358, 426, 427, 434.
1909 C, 115.
1924 C, 67, 72, 187.
Trouessart, E. L. 1905 A, 672.
Zdansky, O. 1926 B, 3, 4 (Procamelus).
Upper Miocene (Pawnee Creek); Colorado: Upper and Middle Miocene (Snake Creek, Sheep Creek); Nebraska.

Protolabis fissidens (Cope).

Hay, O. P. 1902 A, 677 (Procamelus).
Cook, H. J. 1912 D, 43 (Procamelus. This species?).
Hay, O. P. 1924 A, 13 (Procamelus).
Matthew, W. D. 1901 B, 426, 427, 428 (Procamelus).
1909 C, 115 (Procamelus).
1924 C, 67 (Miolabis); 186, 190 (Protolabis).
Trouessart, E. L. 1905 A, 673 (Procamelus).
Upper Miocene (Pawnee Creek); Colorado: (Lower Snake Creek); Nebraska.

Protolabis francisi Hay.

Hay, O. P. 1924 A, 13, pl. iii, figs. 5-8; pl. vi.
Upper Miocene (Fleming); Texas.

Protolabis heterodontus (Cope).

Hay, O. P. 1902 A, 677 (Procamelus).
Cope and Matthew 1915 A, pl. cliii, figs. 3, 4.
Matthew, W. D. 1901 B, 359, 424, 426, 427, 433.
1909 C, 115.
Schlosser, M. 1901 D, 464.
Trouessart, E. L. 1905 A, 672.
Middle Miocene (Pawnee Creek); Colorado.

Protolabis longiceps Matthew.

Matthew, W. D. 1909 C, 115.
Hay, O. P. 1924 A, 13.
Matthew, W. D. 1901 B, 358, 426 (in part), 427, 433, 438, 439, text-figs. 31-33 (P. montanus, not of Douglass).
1924 C, 190, 191 (Protolabis, Miolabis).
Sinclair, W. J. 1915 A, 87.
Upper Miocene (Pawnee Creek); Colorado.

Protolabis montanus Douglass.

Hay, O. P. 1902 A, 678 (Procamelus).
Douglass, E. 1903 A, 154.
Matthew, W. D. 1901 B, 423, 426 (in part).
1909 C, 115, 117.
Osborn, H. F. 1904 F, 15.
Trouessart, E. L. 1905 A, 672.
Zdansky, O. 1926 B, 5.
Middle Miocene (Madison Valley); Montana.

Protolabis princetonianus Sinclair.

Sinclair, W. J. 1915 A, 75, 77, 87, figs. 12, 13.
Hay, O. P. 1924 A, 13.
Matthew, W. D. 1918 A, 187.
1924 C, 186 (Syn. of P. fissidens).
Merriam, J. C. 1917 A, 436.
Lower Pliocene (Snake Creek); Nebraska.

Protolabis pusillus Matthew.

Matthew, W. D. 1921 C, 67 (Nom. nud.).
Middle Miocene (Sheep Creek); Nebraska.

Protolabis saxeus Matthew.

Matthew, W. D. 1924 C, 67, 190.
Middle Miocene (Sheep Creek); Nebraska.

Protolabis serus (Douglass).

Douglass, E. 1900 A, 12, pl. i, fig. 1 (Gomphotherium).
Hay, O. P. 1902 A, 676 (Protomeryx).
Douglass, E. 1903 A, 154 (Gomphotherium).
Matthew, W. D. 1901 B, 423 (Protomeryx).
1909 C, 117.
Trouessart, E. L. 1905 A, 672 (Protomeryx).
Middle Miocene (Madison Valley); Montana.

Protolabis sp. indet.

Deussen, A. 1924 A, 97 (This genus?). Miocene (Oakville); Texas.
Dumble, E. T. 1920 A, 237 (May be Procamelus). Miocene (Fleming); Texas.
Matthew, W. D. 1915 L, 472 (This genus?). Miocene (Fleming); Texas.
1920 E, 237 (May be Procamelus). Miocene (Fleming); Texas.

PLIAUCHENIA Cope. Type *P. humphreysiana* Cope.

Hay, O. P. 1902 A, 679.
Abel, O. 1913 B, 743.
1914 A, 170.
Boas, J. E. V. 1914 B, 593.
Boule and Thevenin 1920 A, 195.
Depéret, C. 1907 B.
Haug, E. 1911 A, 1706.
Hay, O. P. 1923 A, 2, 15.
1925 D, 245.
Heilprin, A. 1887 A, 376.
Laloy, L. 1907 A, 586.
Lull, R. S. 1917 B, 634, 639.
Matthew, W. D. 1901 B, 424, 426.
1904 B, 215.
1909 C, 120.
1910 G, 155.
1915 A, 244.
1918 A, 217.

Matthew, W. D. 1918 D, 144.
Matthew and Cook 1909 A, 368, 395.
Merriam, J. C. 1915 E, 228, fig. 45 (This genus?).
1915 F, 257.
Osborn, H. F. 1905 I, 109.
1909 D, 79, 80, 81, 83.
1910 B, 299, 300, 346, 349, 352, 356, 550.
1918 A, 26, 27, 29, 30.
Palmer, T. S. 1904 A, 551, 921.
Peterson, O. A. 1904 A, 471.
Scharff, R. F. 1911 A, 153, 407.
Schlosser, M. 1901 D, 465, 467.
Schmidt, O. 1886 A, 157.
Scott, W. B. 1913 A, 362.
Terra, P. 1911 A, 326.
Trouessart, E. L. 1905 A, 674.
Weber, M. 1904 A, 660.
Weber and Abel 1928 A, 560.
Zdansky, O. 1926 B.
Zittel and Schlosser 1911 A, 486.
1923 A, 575, 673, 679.

Pliauchenia humphreysiana Cope.

Hay, O. P. 1902 A, 680.
Matson and Clapp 1909 A, 137.
Matthew, W. D. 1901 B, 423, 424, 426, 427.
1909 C, 117.
Matthew and Cook 1909 A, 395.
Merrill, G. P. 1907 A, 55 (P. humpresiana).
Schlosser, M. 1901 D, 465 (P. humphresiana).
Trouessart, E. L. 1905 A, 674 (P. humphresiana).
Zdansky, O. 1926 B, 6.
Miocene (Santa Fe); New Mexico.

Pliauchenia merriami Frick.

Frick, C. 1921 A, 358, pl. xlvii, figs. 1, 2, 4; pl. xlviii, fig. 11; text-figs. 66-71, 92.
Stock, C. 1925 A, 21.
Zdansky, O. 1926 B, 15, 18.
Lower Pliocene (Eden); California.

Pliauchenia minima Wortman.

Hay, O. P. 1902 A, 680.
Matthew, W. D. 1901 B, 423, 426, 427.
1909 C, 117.
Merriam, J. C. 1917 A, 438.
Schlosser, M. 1901 D, 465.
Miocene (Republican River); Kansas.

Pliauchenia singularis Matthew.

Matthew, W. D. 1918 A, 216, fig. 16.
Pliocene (Snake Creek); Nebraska.

Pliauchenia spatula Cope.

Hay, O. P. 1902 A, 680.
Dumble, E. T. 1894 A, 559.
Frick, C. 1921 A, 363.
Gidley, J. W. 1903 C, 627.
Matthew, W. D. 1901 B, 423, 426, 427.
1909 C, 120.
Matthew and Cook 1909 A, 396.
Merriam, J. C. 1917 A, 435.
Montgomery, T. H. 1904 A, 56.
Schlosser, M. 1901 D, 465.
Trouessart, E. L. 1905 A, 674.
Pliocene (Blanco); Texas: (Snake Creek?); Nebraska.

Pliauchenia vera Matthew.

Matthew, W. D. 1909 C, 117.
1918 A, 187 (This species?).
Wortman, J. L. 1898 A, 127 (P. humphreysiana, not of Cope).
Miocene (Republican River); Kansas.

Pliauchenia vulcanorum Cope.

Hay, O. P. 1902 A, 680.
Matson and Clapp 1909 A, 137.
Matthew, W. D. 1901 B, 423.
Merrill, G. P. 1907 A, 55.
Trouessart, E. L. 1905 A, 674.
Miocene; New Mexico.

Pliauchenia sp. indet.

Barbour and Cook 1917 A, 172. Pliocene (Devil's Gulch); Nebraska.
Freudenberg, W. 1921 A, 139. Pleistocene?; Mexico.
Frick, C. 1921 A, 321, fig. 30 (This genus?). Pliocene (San Timoteo); California: 365, 366, pl. xlvii, figs. 3, 5. Pliocene (Eden); California.
Gidley, J. W. 1903 C, 627. Pliocene (Blanco); Texas.
1922 B (This genus?) 120. Pleistocene (San Pedro Valley); Arizona.
Hay, O. P. 1927 D, 311 (This genus?). Pleistocene; Arizona, California, Washington.
McCornack, E. C. 1920 A, 23. Pleistocene? (Ringold); Washington.
Matthew, W. D. 1909 C, 117, 120. Miocene (Arikaree); South Dakota: Pliocene (Blanco); Texas.
Merriam, J. C. 1911 B, 214 (This genus?). Pliocene (Thousand Creek); Nevada.
1911 E, 168 (This genus?). Miocene (Upper); California.
1913 E, 381; fig. 7 (This genus?). Miocene? (Siestan); California.
1915 E, 229, fig. 44 (This genus?). Pliocene? (Etchegoin); California.
1917 A, 425 (This genus?); Pleistocene? (Etchegoin); California: 426 (P. sp.). Pliocene (Orindan); California: 428. Pliocene (Rattlesnake); California: 431. Pliocene (Ricardo); California: 435. Pliocene (Blanco); Texas.
1919 A, 450, 512, 527, 531, figs. 101, 103, 106 (This genus?). Upper Miocene (Barstow): Lower Pliocene (Ricardo); California.
Merriam and Buwalda 1917 A, 258 (This genus?). Pleistocene? (Ringold); Washington.
Merriam, Stock, Moody 1925 A, 59, 87, figs. 41, 42 (This genus?). Pliocene (Rattlesnake); Oregon.
Stock, C. 1921 A, 259, figs. 8, 9 (This genus?). Pliocene? (Panaca); Nevada.
1925 A, 18. Lower Pliocene (Rattlesnake); Oregon: 21 (This genus?); Upper Pliocene (Timoteo); California: Lower Pliocene (Eden); California.

MEGATYLOPUS Matthew and Cook. Type *Pliauchenia gigas* Matthew and Cook.

Matthew and Cook 1909 A, 395 (As subgenus).
Matthew, W. D. 1924 C, 69, 70.
1924 E, 748.
Zdansky, O. 1926 B, 10, 38.
Zittel and Schlosser 1923 A, 575.

Megatylopus gigas Matthew and Cook.

Matthew and Cook 1909 A, 396, figs. 16-18 [Pliauchenia (Megatylopus)].
Cook, H. J. 1912 D, 45.
1922 B, 11 [Pliauchenia (Megatylopus) This species?].
Frick, C. 1921 A, 363 (Megatylopus); 374 (Pliauchenia).
Matthew, W. D. 1918 A, 187, 217.
1923 A, 12 (Pliauchenia).
1924 C, 67, 73, 186.
Merriam, J. C. 1917 A, 436 (Pliauchenia).
Sinclair, W. J. 1915 A, 77 (Pliauchenia).
Zdansky, O. 1926 B, 4, 5, 15 [Pliauchenia (Megatylopus)].
Lower Pliocene (Upper Snake Creek); Nebraska.

CAMELINÆ Zittel.

Zittel, K. A. 1893 B, 364.
Hay, O. P. 1902 A, 680.
Arldt, T. 1907 D, 203, 256, 643.
1912 A, 100.
Hay, O. P. 1914 A, 230.
Knottnerus-Meyer, T. 1907 A, 9, 97.
Trouessart, E. L. 1905 A, 671.
Winge, H. 1906 A, 70, 97 (Camelini).
Zittel and Schlosser 1911 A, 486.
1923 A, 575.

CAMELOPS Leidy. Type *C. kansanus* Leidy.

Hay, O. P. 1902 A, 679.
Ameghino, F. 1889 A, 980.
Boule and Thevenin 1920 A, 194.
Cook, H. J. 1927 C, 241 ("Camelops").
Cope, E. D. 1895 G, 599 (Holomeniscus).
Dall and Harris 1892 A, 284 (Holomeniscus).
Felix and Lenk 1891 A, 127 (Holomeniscus).
Giebel, C. G. 1883 A, pl. xxxi.
Haug, E. 1911 A, 1886.
Hay, O. P. 1913 D, 247.
1914 A, 230.
1919 D, 374.
1925 D, 242.
1926 E, 389.
Holmes, W. H. 1901 A, 423 ("camel").
Lull, R. S. 1917 B, 634, 639.
Lydekker, R. 1904 B, 27.
1914 A, 633.
Matthew, W. D. 1904 B, 215.
1915 A, 244.
1915 K, 403.
1918 D, 144.
1924 C, 186.
1924 E, 748.
Merriam, J. C. 1913 B, 306.
1915 F, 261.
Osborn, H. F. 1909 D, 86.
1910 B, 456, 460, 464, 550.
1918 A, 31.
1925 D, 532.
Palmer, T. S. 1904 A, 156, 920.
Schlosser, M. 1901 D, 465.
1903 I, 96.
Shimek, B. 1910 A, 129, 135 ("Camelus").
Sinclair, W. J. 1904 B, 150, fig. 2 ("camel").
Smith and Packard 1919 A, 102, 104 ("camels").
Trouessart, E. L. 1905 A, 674.
Troxell, E. L. 1915 B, 479 (Auchenia).
Wallace, A. R. 1876 A, I, 138 (Megalomeryx).
Weber, M. 1904 A, 660.
Williston, S. W. 1902 J, 196 ("camels").
Wilson, T. 1901 A, 311 ("lama").
Wright, G. F. 1908 B, 187 ("camel").
1911 A, 282 ("camel" This genus?).
Zdansky, O. 1926 B, 39.
Zittel and Schlosser 1911 A, 486.
1923 A, 576, 680, 681 (Camelops, Auchenia).

Camelops aransas Hay.

Hay, O. P. 1926 C, 7, text-fig. 1.
1927 D, 286.
Pleistocene (Early); Texas.

Camelops? arenarum Hay.

Hay, O. P. 1927 D, 106, 266-268.
Lucas, F. A. 1900 H, 99 ("Procamelus, size of P. major").
1904 F, 3 ("Procamelus, size of P. major").
Pleistocene (Idaho); Idaho.

Camelops californicus (Leidy).

Hay, O. P. 1902 A, 679.
Ashley, G. H. 1895 A, 362 ("llama").
Cooper, J. G. 1875 A, 390 (Palauchenia).
Hay, O. P. 1927 D, 98 (Auchenia); 302, 303 (Camelops); 302, 307 (Lama).
Kellogg, R. 1922 A, 61 (Holomeniscus).
Lindgren, W. 1911 A, 52 (Auchenia).
Merriam, J. C. 1913 B, 320.
Villada, M. M. 1903 A, 448.
Yates, L. G. 1874 B, 19 (Lama california?).
Zdansky, O. 1926 B, 39.
Pleistocene; California.

Camelops hesternus (Leidy).

Hay, O. P. 1902 A, 679.
Abel, O. 1926 B, 238.
Cope, E. D. 1878 II, 125 (Auchenia).
1893 A, 84, pl. xxi, figs. 3, 4.
Felix and Lenk 1891 A, 137 (Holomeniscus).
Frech and Geinitz 1903 A, 35 (Holomeniscus).
Freudenberg, W. 1921 A, 139.
1922 A, 5.
Frick, C. 1921 A, 362.
Furlong, E. L. 1925 A, 139 (This species?).
Gilbert, G. K. 1890 A, 394 (Auchenia).
Gilbert, J. Z. 1910 B, 25, 37 ("camel").
Hay, O. P. 1913 D, 209.

Hay, O. P. 1914 A, 231, pl. xxvii, fig. 4; pl. xxviii, figs. 4, 5; text-figs. 85-88.
1923 E, 395 ("camels" This species?).
1924 D, 374 (Camelops); 239 (Auchenia).
1926 C, 8.
1926 F, 426 ("camels").
1927 D, 87 (Auchenia); 100, 242 (Holomeniscus); 302, 303, pl. vi; pl. ix, fig. 9 (Camelops).
1928 C, 425, 426.
Hodge, E. T. 1925 A, x ("camel").
Joleaud, L. 1920 C, 92 (Auchenia).
Jones, J. C. 1928 A, 7 ("camel." This species?).
McCornack, E. C. 1920 A, 17, 23.
McGee, W J 1888 A, 27 ("camel." This species?).
1889 A, 303 ("camel." This species?).
Merriam, J. C. 1908 D, 472 ("camel").
1913 B, 307, figs. 1-3, 11 (C. hesternus); 309, figs. 4-9 (C. hesternus?).
1918 D, 517 (This species?).
Merriam and Stock 1925 A, 11.
1925 B, 39 (This species?).
Osborn, H. F. 1925 D, 528, 531, figs.
Rath, G. 1886 A, 106 (Holomeniscus).
Romer, A. S. 1928 B, 20.
Schlosser, M. 1901 D, 465 (Syn. of C. kansanus).
Schmidt, O. 1886 A, 157, fig. 22 (Auchenia).
Stock, C. 1924 A, 4.
1925 A, 30, 35, 118.
1928 C, 36.
Swarth, H. S. 1915 A, 23, fig. 11.
Trouessart, E. L. 1905 A, 674.
Troxell, E. L. 1915 A, 616, 622, figs. 6, 7, 9, 11 (Auchenia).
1917 A, 88, fig. 1 (Auchenia).
Villada, M. M. 1903 A, 447, pl. iv (Auchenia).
Whitney, J. D. 1879 B, 261 ("camel." This species?).
Wyman, L. E. 1922 A, 26, fig. 17 ("camel").
1927 A, 86 ("camel").
Yates, L. G. 1903 A, 113, pl. xii (Auchenia).
Zdansky, O. 1926 B.
Pleistocene (Early); Texas, Mexico, California.

Camelops huerfanensis Cragin.

Hay, O. P. 1902 A, 679 (C. kansanus, part).
Baker, F. C. 1920 A, 210 (Auchenia).
Boule and Thevenin 1920 A, 195 (Auchenia).
Cahn, A. R. 1922 A, 23.
Hay, O. P. 1913 D, 269, pls. xxv, xxvi; text-fig. 1.
1914 A, 239, 243, pl. xxviii, fig. 1 (This species?); pls. xxix, xxx, fig. 1; pl. xxxi, fig. 3.
1917 B, 17.
1917 D, 47, pl. i, fig. 8; pl. ii, figs. 5, 6 (This species?).
1920 B, 122.
1921 A, 604, pl. cxiii, fig. 2.
1924 D, 373 (Auchenia); 374 (Camelops).
1927 D, 303.
1928 C, 425, 426.
Hills, R. C. 1889 A, 221 ("camel." This species?).
Lull, R. S. 1921 B, 170.
Schlosser, M. 1901 D, 465 (Auchenia. Syn. of C. kansanus).
Trouessart, E. L. 1905 A, 674 (Syn. of C. kansanus).
Zdansky, O. 1926 B, 3, 6, 31.
Pleistocene (Early); Colorado, Kansas, Texas.

Camelops huerfanensis dallasi Lull.

Lull, R. S. 1921 B, 168, figs. 4, 5.
Hay, O. P. 1924 D, 161, 162, 241.
Shuler, E. W. 1923 A, 333 ("camel").
Zdansky, O. 1926 B, 3.
Pleistocene (Early); Texas.

Camelops kansanus Leidy.

Hay, O. P. 1902 A, 679.
Baker, F. C. 1920 A, 455.
Haug, E. 1911 A, 1886.
Hay, O. P. 1913 D, 267, 269.
1914 A, 26, 231, pl. xxvii, figs. 3, 5?; pl. xxviii, fig. 6?; pl. xxxi, fig. 4?; pl. lxxiv, fig. 7? (This species?).
1920 B, 121 (This species?).
1924 D, 374.
1927 D, 303.
1928 C, 425, 426.
Matthew, W. D. 1902 F, 318, 320, 321.
1918 A, 227.
Merriam, J. C. 1913 B, 317, figs. 10, 10*b*.
Merrill, G. P. 1907 A, 27.
Miller, L. H. 1912 A, 81.
Schlosser, M. 1901 D, 465.
Stock, C. 1925 A, 195, 199 (This species?).
Trouessart, E. L. 1905 A, 674, 678.
Zdansky, O. 1926 B, 39.
Pleistocene (Aftonian); Kansas, Iowa?, Colorado?, Nebraska?, Oklahoma?.

Camelops macrocephalus (Cope).

Hay, O. P. 1902 A, 679.
Dumble, E. T. 1894 A, 564 (Holomeniscus).
Gidley, J. W. 1903 C, 623 (Holomeniscus).
Hay, O. P. 1917 B, 17.
1920 B, 123.
1924 D, 374 (Camelops); 378 (Holomeniscus).
1928 C, 425, 426.
Merriam, J. C. 1913 B, 321 (Holomeniscus).
Montgomery, T. H. 1904 A, 57 (Holomeniscus).
Osborn, H. F. 1910 B, 458 (Holomeniscus).
Wortman, J. L. 1898 A, 132 (Holomeniscus. Syn.? of C. vitakerianus).
Zdansky, O. 1926 B, 39.
Pleistocene (Aftonian); Texas.

Camelops minidokæ Hay.

Hay, O. P. 1927 D, 93, 104, 127, 264, 269, pl. vii, fig. 2; pl. viii, figs. 2, 3.
1913 D, 268, 271, pl. xxvi, figs. 2, 5 (C. huerfanensis).
1914 A, 237, 243, pl. xxx, figs. 2, 5 (C. huerfanensis?).
1927 D, 81 (C. huerfanensis).
Pleistocene (Early); Idaho.

Camelops nevadanus Hay.

Hay, O. P. 1927 D, 84, 303, pl. iv, figs. 3, 4; pl. v, fig. 3.
1926 G, 131 ("camel").
Pleistocene (Early); Nevada.

Camelops niobrarensis (Leidy).

Leidy, J. 1858 E, 24 (Megalomeryx).
Hay, O. P. 1902 A, 679 (C. kansanus, in part).
Cook, H. J. 1927 A, 117 ("camel").
Figgins, J. D. 1928 A, 82 ("camel").
Gidley, J. W. 1926 C, 484.
Hay, O. P. 1913 D, 267, 276 (Megalomeryx); pl. xxvi, figs. 3, 4 (C. huerfanensis?).
1914 A, 239 (Megalomeryx); pl. xxx, figs. 3, 4 (C. huerfanensis?).
1921 A, 600-605, pl. cxvi, figs. 1-7.
1927 D, 303, pl. v, figs. 1, 2; pl. viii, fig. 4 (Camelops); 309 (Megalomeryx).
1928 C, 425, 426.
Merrill, G. P. 1907 A, 46 (Megalomeryx); 56 (Procamelus).
Spier, L. 1928 A, 161 ("camel").
Yates, L. G. 1903 A, 117 (This species?).
Zdansky, O. 1926 B, 39.
Pleistocene (Early); Colorado.

Camelops nitidus Hay.

Hay, O. P. 1920 B, 122, pl. vii, figs. 3-8.
1924 D, 164, 254.
Pleistocene (Aftonian); Oklahoma.

Camelops sulcatus (Cope).

Cope, E. D. 1893 A, 84, pl. xxiii, fig. 4 (Holomeniscus).
Hay, O. P. 1902 A, 679 (C. kansanus, part).
Dumble, E. T. 1894 A, 564 (Holomeniscus).
Gidley, J. W. 1903 C, 623 (Holomeniscus).
Hay, O. P. 1913 D, 275 (=? C. huerfanensis).
1914 A, 232, pl. xxviii, figs. 2, 3 (Holomeniscus, Camelops).
1917 B, 17.
1924 D, 161 (Camelops); 378 (Holomeniscus).
1926 C, 7, text-fig. 2.
1927 D, 92 (Holomeniscus); 302, 303, pl. vii, fig. 1; pl. viii, fig. 1 (Camelops).
Merriam, J. C. 1913 B, 321 (Holomeniscus).
Montgomery, T. H. 1904 A (Holomeniscus).
Osborn, H. F. 1910 B, 458 (Holomeniscus).
Schlosser, M. 1901 D, 465 (Syn. of C. kansanus).
Zdansky, O. 1926 B, 39.
Pleistocene (Early); Texas.

Camelops vacondæ Hay.

Hay, O. P. 1927 D, 97, pl. vii, figs. 3, 4.
1921 A, 601-602, pl. cxvi, figs. 8, 9 (sp. indet.).
Pleistocene (Early); South Dakota.

Camelops virginiensis (Leidy).

Hay, O. P. 1902 A, 678 (Procamelus).
Clark and Miller 1912 A, 167, 168.
Cope, E. D. 1892, in Dall and Harris 1892 A, 130 (No name).
Leidy, J. in Dall and Harris 1892 A, 62, 130 ("Auchenia").
Geological age uncertain; Virginia.

Camelops vitakerianus (Cope).

Hay, O. P. 1902 A, 679.
Baker, F. C. 1920 A, 209, 213, 395.
Condon, T. 1902 A, 138, 147, pl. xxvii (Auchenia vitakeri).
1910 A, 122, pl. xxvii (Auchenia vitakeri).
Cope, E. D. 1878 II, 125 (Auchenia).
1893 A, 85 (Holomoniscus); 86 (A[uchenia]).
Gilbert, G. K. 1890 A, 294 (Auchenia).
Hay, O. P. 1914 A, 26.
1924 D, 168, 305.
1927 D, 100, 242 (Holomeniscus); 303 Camelops).
1928 C, 425, 426.
McCornack, E. C. 1920 A, 17, 23.
Matthew, W. D. 1902 F, 318, 320, 321.
1918 A, 227 (This species?).
Merriam, J. C. 1913 B, 321.
Miller, L. H. 1912 A, 81.
Rath, G. 1886 A, 106 (Holomeniscus).
Schlosser, M. 1901 D, 465.
Stock, C. 1925 A, 195.
Zdansky, O. 1926 B, 39.
Pleistocene (Fossil Lake); Oregon, Nebraska, Washington.

Camelops sp. indet.

Antevs, E. 1925 A, 75. Pleistocene (Lahontan); Nevada.
Bancroft, H. H. 1875 A, 697 ("camels"). California.
Becker, G. F. 1888 A, 221 (This genus?). Pleistocene (Cache Lake); California.
Bretz, J. H. 1928 A, 331, 340. Pleistocene; Oregon.
Calvin, S. 1910 A, XII ("camels"). Pleistocene (Aftonian); Iowa.
Cannon, G. L. 1888 B, 62 ("camel"). Pleistocene (Early); Colorado.
1896 A, in Emmons, S. F. 1896 A, 264 ("camel"). Pleistocene (Early); Colorado.
Chamberlin, R. T. 1916 A, 35 ("camel." This genus?).
Cook, H. J. 1925 A, 460. Pleistocene; Texas.
1926 D, 335 (This genus?). Pleistocene; Colorado, Texas.
Cooke, C. W. 1928 A, 421 ("camels." This genus?). Pleistocene; Florida.
Diller, J. S. 1906 A, 6, 11 ("camel." This genus?). Pleistocene (Potter Creek); California.
Freudenberg, W. 1922 A, 25 ("2 sp. cameliden"). Pleistocene; Mexico.
Frick, C. 1921 A, 295, figs. 2-4 ("camelid"? This genus?). Pleistocene (Bautista); California.
Gidley, J. W. 1918 C, 180 (This genus?). Pleistocene? (Early); Montana.
1925 A, x ("camel"). Pleistocene; Florida.
1927 E, 274. Pleistocene; Florida.
1928 B, 16 ("camel"). Pleistocene; Florida.

Hay, O. P. 1914 A, 59, 241, pl. xxi, figs. 1, 2.
1921 A, 604, pl. cxxii, figs. 1-3 (C. huerfanensis?).
1922 A, 446 ("camel." This genus?). Pleistocene (Zuni); Arizona.
1923 A, 481.
1924 B, 259 ("camel"). Pleistocene; Florida.
1924 D, 374. Pleistocene; Colorado, Iowa, Kansas.
1926 D, 359. Pleistocene; Missouri, Montana, Nebraska, South Dakota, Texas.
1927 C, 281. Pleistocene; Florida.
1927 D, 101 (Auchenia, Holomeniscus); 301, 303 (Camelops). Pleistocene; Arizona, Colorado, California, Florida, Nevada, Oregon.
1928 B, 236. Pleistocene (Anastasia); Florida.
1928 C, 423.
Jones, J. C. 1925 A, 49. Pleistocene (Early); Nevada.
Knowlton, F. H. 1911 D, 63 ("camel." This genus?).
Lee, Stone and Gale 1915 A, 173 ("camel." This genus?). Pleistocene (Lake Lahontan); Nevada.
Loomis, F. B. 1924 C, 506. Pleistocene; Florida.
Lull, R. S. 1921 B, 174 ("camel"). Pleistocene (Early); Texas.
McCornack, E. C. 1914 A, 15. Pleistocene (Fossil Lake); Oregon: (Equus beds); Oregon, Washington.
MacCurdy, G. G. 1917 A, 261 ("camel").
Matthew and Cook 1902 F, 320, 321.
Merriam, J. C. 1909 A, 293. Pleistocene; California.
1915 C, 379, 380, fig. 3 (This genus?); Nevada.
1915 E, 228, figs. 42, 43. California.
Merriam, J. C. 1915 F, 261 ("Camelops." This genus?); ("small camel") Pleistocene (Manix) California.
1917 A, 425 (This genus?); Pliocene? (Etchegoin); California.
Merriam and Stock 1921 A, 567 ("camel"). Pleistocene (Early); California.
1925 A, 10, 11 ("camelid." This genus?).
Miller, L. H. 1912 A, 78, 81 (This genus?). Pleistocene (Early); Oregon, California.
1925 A, 309 ("camel"). Pleistocene (McKittrick); California.
Russell, I. C. 1884 A, 460 ("camel").
1885 A, 239 ("camel." This genus?). Pleistocene (Lake Lahontan); Nevada.
1902 A, 56 ("large camel," "small camel"). Pleistocene (Idaho); Idaho.
Sellards, E. H. 1916 C, 149, 158, pl. xxx, fig. 5 ("camel." This genus?).
1916 D, 617 ("camel." This genus?). Pleistocene (Early); Florida.
1916 E, 16 ("camel." This genus?).
Shufeldt, R. W. 1913 B, 154, pl. xliii, fig. 562. Pleistocene (Fossil Lake); Oregon.
Simpson, G. G. 1928 H, 2 (This genus?). Pleistocene (Early); Florida.
Sinclair, W. J. 1903 A, 711 ("Camelops sp.").
1904 A, 18 ("camelid").
1904 B, 11. Pleistocene; Nevada.
Smith, D. T. 1904 A, 11 ("camel." This genus?). Pleistocene (Lahontan); Nevada.
Stock, C. 1924 A, 4 ("camel"). Pleistocene; California.
1925 A, 113 ("camelid." This genus?). Pleistocene (Potter Creek Cave); California.
Whitney, J. D. 1865 A, 251 ("camel"). Pleistocene; California.
Yates, L. G. 1915 A, 67 (Lama. This genus?). Pleistocene (Early); California.

ESCHATIUS Cope. Type *E. conidens* Cope.

Hay, O. P. 1902 A, 680.
Boas, J. E. V. 1914 B, 592.
Felix and Lenk 1891 A, 126.
Haug, E. 1911 A, 1886.
Hay, O. P. 1923 A, 14.
Lull, R. S. 1917 B, 634, 639.
Lydekker, R. 1904 B, 27.
Matthew, W. D. 1904 B, 215.
1915 A, 244.
Merriam, J. C. 1913 B, 306, 317.
Osborn, H. F. 1909 D, 96.
1910 B, 460, 550.
Palmer, T. S. 1904 A, 271, 920.
Schlosser, M. 1901 D, 467.
1903 I, 96.
Terra, P. 1911 A, 327.
Weber, M. 1904 A, 660.
Weber and Abel 1928 A, 561.
Zdansky, O. 1926 B, 39.
Zittel and Schlosser 1911 A, 486.
1923 A, 576, 680.

Eschatius conidens Cope.

Hay, O. P. 1902 A, 680.
Felix and Lenk 1891 A, 137.
Frech and Geinitz 1903 A, 35.
Freudenberg, W. 1921 A, 139.
1922 A, 5.
Hay, O. P. 1927 D, 305.
1928 C, 425, 426.
Joleaud, L. 1920 C, 92 (E. conideus).
McCornack, E. C. 1920 A, 17, 23 ("Eschatius").
Matthew, W. D. 1902 F, 320.
Miller, L. H. 1912 A, 81.
Rath, G. 1886 A, 106 ("Eschatius").
Schlosser, M. 1901 D, 465.
Stock, C. 1925 A, 195.
Trouessart, E. L. 1905 A, 674.
Troxell, E. L. 1915 A, 616, 622, figs. 8, 10, 12, 13.
Villada, M. M. 1903 A, 448.
Pleistocene; Oregon, Mexico, Texas.

Eschatius longirostris Cope.

Hay, O. P. 1902 A, 680.
1927 D, 100, 242.
Trouessart, E. L. 1905 A, 674.
Pleistocene; Oregon.

Camelus Linnæus. Type *C. dromedarius* Linnæus.

Hay, O. P. 1902 A, 680.
Abel, O. 1914 A, 170.
Adam, W. 1830 A, 525.
1854 A, 237 ("camel").
Altmann, F. 1925 A, 108.
Anderson, R. J. 1908 A, 547 ("camel").
1914 A, 534.
Andrews, C. W. 1916 A, 1.
Arldt, T. 1907 D, 643.
Baker, F. C. 1920 A, 226, 243, 395.
Beddard, F. E. 1902 A, 285.
Bertelli, D. 1909 A, 166.
Black, D. 1915 A, 350, fig. 15.
Boas, J. E. V. 1884 B, 398 ("dromedär").
1914 B, 592.
Bojanus, L. H. 1824 A, 263, pl. xxi, figs. 1-8 (Merycotherium).
Boule and Thevenin 1920 A, 195.
Bronn, H. G. 1848 A, 207.
1849 A, 711.
Camerano, L. 1916 B, 6, pl. v, fig. 4.
Carus, V. 1875 A. 156.
Carus and Engelmann 1861 A, 1717.
Cuvier, G. 1805 A.
Doran, A. H. G. 1878 A, 424, pl. lxi.
Eimer, G. H. T. 1901 A, 218.
Falconer, H. 1868 A, I, 230.
Falconer and Cautley 1836 A, 116.
Fischer, J. B. 1829 A, 434.
Foote, J. S. 1916 A, 105, pl. xi ("camel").
Gaupp, E. 1913 A, 125.
Gervais, P. 1852 A, 89.
1853 B, 44 ("chameau").
1859 A, 156.
Giebel, C. G. 1855 A, 65, pl. xxvii.
1883 A, 134.
Gilbert, J. Z. 1910 B, 38.
Gregory, W. K. 1920 A, 193.
Hasse and Schwarck 1870 A, 137.
Hay, O. P. 1914 A, 240, 241.
1923 A, 14, 15.
Hoernes, R. 1886 A, 676.
Hrdlička, A. 1903 A, 379.
Jacobi, A. 1921 A, 209.
Kampfen, P. N. 1905 A, 594.
Knottnerus-Meyer, T. 1907 A, 9, fig.
Köstlin, O. 1844 A ("kamel").
Lesbre, F. X. 1903 A.
Leuckart, F. S. 1835 A, 172 ("dromedär").
Leunis and Ludwig 1883 A, 266.
Lubosch, W. 1907 A, 622 ("dromedär").
Lull, R. S. 1917 B, 627, 634, 639, fig. 229.
Lydekker, R. 1904 B, 27.
1907 B, 60.
1915 D, 299.
Matthew, W. D. 1904 B, 215.
1915 A, 244.
1918 D, 144.
Meckel, J. F. 1823 A, 1-20 ("kameel").
Merriam, J. C. 1913 B, 306, 307.
1917 A.
Nehring, A. 1901 A, 264.
1901 B, 188.
O'Harra, C. C. 1920 A, 132.
Osborn, H. F. 1905 I, 109.
1909 D, 123.
1910 B, 609.
1912 G, 251.
Owen, R. 1845 B, 530, pl. cxxxiv, figs. 8, 10 ("camel").
1858 A, 30.
1866 B, 470, figs. 300, 307, 318.
1868 A, 349.
1870 C, 69.
Palmer, T. S. 1904 A, 156, 920.
Pavlow, M. 1904 A, 113.
Pictet, F. J. 1853 A, 345.
Scharff, R. F. 1911 A, 153.
Schlosser, M. 1903 I, 97, 184, 209, 211, 219.
Schmidt, O. 1886 A, 157.
Scott, W. B. 1913 A, 387, 677.
Strecker, C. 1887 A, 314.
Taschenberg, O. 1899 A, 4491.
Terra, P. 1911 A, 327.
Tornier, G. 1888 A, 292.
Trouessart, E. L. 1905 A, 676.
Weber, M. 1904 A, 658, 661.
Weber and Abel 1928 A, 558.
Wilder, B. 1872 B, 320.
Winge, H. 1906 A, 102.
Wright, R. R. 1883 A, 280.
Zdansky, O. 1926 B.
Zittel and Schlosser 1911 A, 486.
1923 A, 575, 680.

Camelus americanus Wortman.

Hay, O. P. 1902 A, 680.
Baker, F. C. 1920 A, 209, 213, 395.
Boule and Thevenin 1920 A, 195.
Frick, C. 1921 A, 361, 363.
Haug, E. 1911 A, 1886.
Hay, O. P. 1914 A, 26.
1924 D, 168, 305.
1928 C, 425, 426.
Matthew, W. D. 1902 F, 318.
1918 A, 227 (Camelops).
Merriam, J. C. 1911 B, 211, 213, 214, fig. 50 (This species?).
1917 A, 429 (This species?).
Osborn, H. F. 1910 B, 456.
Pavlow, M. 1904 A, 127.
Schlosser, M. 1901 D, 465.
Shimek, B. 1910 B, 316 ("Camelus?" This species?).
Stock, C. 1928 C, 37 (To Tanupolama?).
Weber and Abel 1928 A, 560.
Zdansky, O. 1926 B, 39.
Pleistocene (Aftonian); Nebraska:? Pliocene (Thousand Creek); Nevada.

Camelus arctoamericanus Hay.

Hay, O. P. 1921 A, 607, pl. cxix, fig. 12.
Gidley, J. W. 1913 E, 2 ("camel").
Pleistocene (Early); Yukon.

Camelus maximus Hay.

Hay, O. P. 1921 A, 607, pl. cxxiii, fig. 1.
1927 D, 303, pl. iv, fig. 5.
Stock, C. 1925 A, 195, 199 (Camelops? "sp. max.").
Pleistocene (Early); Washington, Oregon, Idaho?

PALAUCHENIA Owen. Type *P. magna* Owen.

Owen, R. 1869 F, 405.
Cope, E. D. 1884 G, 16.
Felix and Lenk 1891 A, 127.
Lydekker, R. 1885 C, 148 (Auchenia).
Owen, R. 1870 C, 65.
Trouessart, E. L. 1898 A, 842.
Zittel and Schlosser 1923 A, 681.

Palauchenia magna Owen.

Owen, R. 1869 F, 405.
Cope, E. D. 1884 G, 19.
Felix and Lenk 1891 A, 137.
Freudenberg, W. 1921 A, 139.
1922 A, 5.
Owen, R. 1870 C, 65, pls. iv-vii.
Villada, M. M. 1903 A, 448.
Pleistocene; Mexico.

LAMA Cuvier. Type not designated.

Cuvier, G. 1798, Tabl. Élém. Hist. Nat. Anim., 158.
Andrews, C. W. 1916 A, 1 (Auchenia).
Camerano, L. 1916 A, 3, pl. iii.
1916 B, 8, pls. vi, vii.
Cuvier, G. 1800, Leçons d'Anat. Comp., tab. i.
1805 A, tab. i.
Doran, A. H. G. 1878 A, 424, pl. lxi.
Gervais, P. 1859 A, 157 (Auchenia).
Gidley, J. W. 1922 B, 120.
Hasse and Schwarck 1870 A, 135 (Auchenia).
Hay, O. P. 1913 D, 276 (Auchenia).
1925 D, 245.
Knottnerus-Meyer, T. 1907 A, 9, 104.
Lesbre, F. X. 1903 A, 163 (Auchenia).
Lönnberg, E. 1913 A, 1, seq.
Loomis, F. B. 1925 E, 596, fig. 9, 10 (Auchenia).
Major, C. J. F. 1891 B, 385.
Matthew, W. D. 1904 B, 215 (Auchenia).
Merriam and Stock 1925 B, 39.
Miller, G. S. 1924 A, 1.
Owen, R. 1870 C, 66 (Auchenia).
Reynolds, S. H. 1897 A, 359, 428, 445, 496, fig. 103 (Auchenia).
Scott, W. B. 1913 A, 388.
Stock, C. 1928 C, 32.
Süppel, R. 1926 A, 97.
Taschenberg, O. 1899 A, 4468 (Auchenia).
Troxell, E. L. 1915 A, 625 (Auchenia).
Weber, M. 1904 A, 658, 661.
Weber and Abel 1928 A, 556, 559, 560, figs. 373-375.
Weber and Burlet 1927 A, 111, fig. 83.
Williston, S. W. 1910 G, 595 ("llama").
Woodward, A. S. 1898 B, 360 (Auchenia).
Wright, R. R. 1883 A, 282 (Auchenia).
Zittel and Schlosser 1911 A, 486 (Auchenia).
1923 A, 576 (Auchenia).

Lama sp. indet.

Freudenberg, W. 1910 A, 5. Pleistocene (Early); Mexico.
Gidley, J. W. 1922 B, 120. Pleistocene (San Pedro Valley); Arizona.
1928 B, 16 (This genus?). Pleistocene; Florida.
Hay, O. P. 1927 D, 302, 307. Pleistocene; Arizona, California.
1928 C, 425.

TANUPOLAMA Stock. Type *Lama stevensi* Merriam and Stock.

Stock, C. 1928 C, 29.

Tanupolama stevensi (Merriam and Stock).

Merriam and Stock 1925 B, 39, figs. 1-4 (Lama).
Hay, O. P. 1927 D, 198 (Lama).
Merriam and Stock 1925 A, 11 ("camel").
Stock, C. 1928 C, 29, pls. i-vi.
Stock and Furlong 1927 A, 409 (Lama).
Pleistocene (McKittrick); California.

STENOMYLUS Peterson. Type *S. gracilis* Peterson.

Peterson, O. A. 1906 C, 35, 41.
Andrews, C. W. 1916 A, 1.
Anonymous 1910 A, 197.
Eastman, C. R. 1912 C, 658.
Loomis, F. B. 1909 B, 196.
1910 B, 297, 318, 321.
1911 B, 69.
1928 A, 139.
Lull, R. S. 1917 B, 634, fig. 636.
1922 B, 118.
Matthew, W. D. 1908 A, 553, 559.
1909 C, 120.
1924 C, 165.
Moodie, R. L. 1923 B, 566, fig. 27, pl. lxvii.
O'Harra, C. C. 1920 A, 71, 136, fig. 21.
Osborn, H. F. 1909 D, 74.
1910 B, 234, 236, 550.
Peterson, O. A. 1911 B, 267.
1912 C, 366.
Scott, W. B. 1913 A, 241, 393, 408.
Troxell, E. L. 1920 A, 392.
Zittel and Schlosser 1911 A, 485.
1923 A, 575, 672.

Stenomylus crassipes Loomis.

Loomis, F. B. 1910 B, 303, 309, 314, 319, figs. 27-30.
Cook, H. J. 1912 D, 41.
Loomis, F. B. 1911 B, 70.
O'Harra, C. C. 1920 A, 157.
Miocene (Harrison); Nebraska.

Stenomylus gracilis Peterson.

Peterson, O. A. 1906 C, 35, 41, pl. xii; text-fig. 9.
Cook, H. J. 1912 D, 41 (S. gracelis).
Loomis, F. B. 1910 B, 303, 309, 318.
1911 B, 70.

Matthew, W. D. 1909 C, 114.
O'Harra, C. C. 1920 A, 157.
Peterson, O. A. 1908 A, 286, figs. 1-12.
1911 B, 272.
Zdansky, O. 1926 B, 6, 15, 30.
Miocene (Lower Harrison); Nebraska.

Stenomylus hitchcocki Loomis.

Loomis, F. B. 1910 B, 298, 318, figs. 1-26.
Abel, O. 1926 B, 360, 374, 376, 459.
Andrews, C. W. 1916 A, 1, pl. i.
Cook, H. J. 1912 D, 41.
Gilmore, C. W. 1921 F, 66 ("Stenomylus").
Holland, W. J. 1909 A, 453 (S. tyleri).
Loomis, F. B. 1911 B, 70.
1923 A, 222.
O'Harra, C. C. 1910 A, 117.
1920 A, 157.
Peterson, O. A. 1911 B, 267, pl. xliv.
1912 C, 366, pls. xxi, xxii; text-fig. 1.
1923 B, 94, pl. vi.
Scott, W. B. 1913 A, 242, fig. 131.
Zdansky, O. 1926 B.
Miocene (Harrison); Nebraska.

Stenomylus sp. indet.

Cook, H. J. 1912 D, 43. Miocene (Upper Harrison); Nebraska.
Peterson, O. A. 1924 B, 304, fig. 3 (This genus?). Lower Miocene (Brown's Park); Colorado.
1928 A, 100, pl. x, figs. 3, 4; text-fig. 9 (This genus?). Miocene or Pliocene (Brown's Park); Colorado.

TELEOPTERNUS Cope. Type *T. orientalis* Cope.

Hay, O. P. 1902 A, 680.
Diener, C. 1912 A, 216.
Frech and Geinitz 1903 A, 36.
Matthew, W. D., in Osborn, H. F. 1910 B, 469 (Related to Ovibos?).
Osborn, H. F. 1910 B, 469, 470.
Palmer, T. S. 1904 A, 667, 925.
Schlosser, M. 1902 H, 143.
Trouessart, E. L. 1905 A, 676.
The position of this genus is uncertain.

Teleopternus orientalis Cope.

Hay, O. P. 1902 A, 680.
1923 A, 497.
Mercer, C. H. 1897 A, 444 ("llama").
Rhoads, S. N. 1903 A, 240.
Schlosser, M. 1902 H, 143.
Pleistocene (Port Kennedy); Pennsylvania.

HYPERTRAGULIDÆ Cope.

Cope, E. D. 1879 B, 66.
Abel, O. 1913 B, 729, 743.
1914 A, 171, 172.
1919 A, 809.
Matthew, W. D. 1901 B, 371, 440, 441.
1902 E, 311.
1907 A, 176, 178.
1908 A, 555, 560, 561 (Hypertragulidæ, Hypertragulinæ, Hypisodontinæ, Leptotragulinæ).
1909 C, 100, 103, 104, 106, 111, 114, 120.
1910 A, 41 (Hypertragulidæ, Hypertragulinæ, Leptotragulinæ).
1926 B, 5.
Matthew and Granger 1925 C, 9.
O'Harra, C. C. 1910 A, 111, 148.
1920 A, 128.
Osborn, H. F. 1909 D, 127.
1910 B, 618 (Hypertragulidæ, Hypertragulinæ, Leptomerycinæ, Leptotragulinæ, Hypisodontinæ).
Palacký, J. 1903 B, 306, 310 ("leptotragulinen").
Palmer, T. S. 1904 A, 747, 920.
Peterson, O. A. 1918 A, 153.
Scharff, R. F. 1911 A, 112.
Schlosser, M. 1903 I, 139, 211, 219 ("hypertragulinen").
1904 C, 70, 93.
Scott, W. B. 1913 A, 683.
Trouessart, E. L. 1905 A, 682 (Leptomerycidæ).
1908 A, 839 (Leptotragulinæ).
Troxell, E. L. 1920 A, 392.
Weber, M. 1904 A, 662.
Weber and Abel 1928 A, 426, 565, 599 (Hypertragulidæ); 602 (Leptomerycinæ); 606 (Hypisodinæ).
Zittel and Schlosser 1911 A, 484 (Leptotragulinæ); 488 (Hypertragulidæ).
1923 A, 578 (Hypertragulidæ); 574 (Leptotragulinæ).

LEPTOMERYX Leidy. Type *L. evansi* Leidy.

Hay, O. P. 1902 A, 671.
Abel, O. 1914 A, 172.
Boule and Thevenin 1920 A, 170.
Condon, T. 1902 A, 121.
Cope, E. D. 1880 U, 155, 156.
Dall and Harris 1892 A, 289.
Depéret, C. 1912 A, 708.
Douglass, E. 1909 C, 231.
Giebel, C. G. 1883 A, 137.
Haug, E. 1911 A, 1528, 1529.
Kampfen, P. N. 1905 A, 596.
Lambe, L. M. 1904 C, 29.
1905 D, 370 A.
Loomis, F. B. 1928 A, 142.
Lydekker, R. 1909 C, 454.
Matthew, W. D. 1901 B, 369, 370, 373, 440, 441.
1902 E, 313, fig. 2.
1905 A, 24.
1908 A, 535, 539, 552, 554, 555, 558, 559, figs. 11-13.
1909 C, 111.
1910 A, 42.
1915 A, 244, 247.
1915 K, 420, 457.
1924 C, 204.
1924 E, 748.

Matthew, W. D. 1926 B, 2, 5.
Matthew and Granger 1924 A, 4.
1925 E, 11.
Osborn, H. F. 1910 B, 215, 220, 302, 551, fig. 104.
Palmer, T. S. 1904 A, 372, 911.
Peterson, O. A. 1912 B, 166.
1919 A, 95.
Riggs, E. S. 1914 A, 145.
Scharff, R. F. 1911 A, 110.
Schlosser, M. 1901 A, 490.
1901 G, 490.
1903 I, 112, 139.
1904 C, 76, 96, 97.
Scott, W. B. 1913 A, 258, 267, 407, 657.
Sellards, E. H. 1916 B, 89.
Sinclair, W. J. 1905 A, 131.
1924 A, 128.
Trouessart, E. L. 1905 A, 683.
Wallace, A. R. 1876 A, II, 220.
Weber, M. 1904 A, 662, 687.
Weber and Abel 1928 A, 565, 604.
Winge, H. 1906 A, 106.
Zittel and Schlosser 1911 A, 489.
1923 A, 579.

Leptomeryx esulcatus Cope.

Hay, O. P. 1902 A, 671.
Granger, W. 1910 A, 240 (This species?).
Lambe, L. M. 1904 C, 29, 38.
1905 D, 367 A.
1908 A, 10, 30.
Matthew, W. D. 1902 E, 314 (Leptomeryx?).
1903 B, 222, fig. 15 (This species?).
1909 C, 104.
Trouessart, E. L. 1905 A, 683.
Lower Oligocene (White River); Canada, Montana?, Wyoming.

Leptomeryx evansi Leidy.

Hay, O. P. 1902 A, 671.
Abel, O. 1914 A, 173, fig. 130.
Darton, N. H. 1905 A, 173.
Douglass, E. 1909 C, 283.
Matthew, W. D. 1901 B, 358.
1902 E, 313.
1908 A, 544, 548, figs. 8-11.
1909 C, 106.
1926 B, 4.
Merrill, G. P. 1907 A, 43.
O'Harra, C. C. 1920 A, 129, 153, fig. 65.
Pearson, H. S. 1923 A, 64, fig. 2.
Riggs, E. S. 1915 A, 381, 393, pl. lx.
Scott, W. B. 1913 A, 407, 563, figs. 218, 277.
Sinclair, W. J. 1924 A, 102.
Trouessart, E. L. 1905 A, 683.
Weber and Abel 1928 A, 605, fig. 399.
Middle Oligocene (Brule); South Dakota, Nebraska, Colorado.

Leptomeryx mammifer Cope.

Hay, O. P. 1902 A, 671.
Lambe, L. M. 1904 C, 29, 38, 51.
1905 D, 367 A.
1908 A, 10, 30.
Matthew, W. D. 1902 E, 313.
1903 B, 224, figs. 16, 17.
1909 C, 104 (Trigenicus?).
Trouessart, E. L. 1905 A, 683.
Lower Oligocene (Swift Current Creek); Canada.

Leptomeryx obliquidens Lull.

Lull, R. S. 1922 B, 115.
Matthew, W. D. 1926 B, 4.
Upper Oligocene (Upper John Day); Oregon.

Leptomeryx? semicinctus Cope.

Hay, O. P. 1902 A, 672.
Lambe, L. M. 1904 C, 29, 38, 51.
1905 D, 367 A.
1908 A, 10, 32.
Matthew, W. D. 1902 E, 314 ("Not Leptomeryx").
Trouessart, E. L. 1905 A, 683.
Oligocene (White River); Canada, South Dakota.

Leptomeryx speciosus Lambe.

Lambe, L. M. 1908 A, 10, 31, pl. viii, figs. 10-15.
Oligocene (Cypress Hills); Saskatchewan.

Leptomeryx transmontanus Douglass.

Douglass, E. 1903 A, 151, 167, fig. 11.
Matthew, W. D. 1909 C, 109.
1926 B, 4 (L. drummondanus; *lapsus pennæ*).
Upper Oligocene (Drummond?); Montana.

Leptomeryx sp. indet.

Condon, T. 1902 A, 121. Oligocene; Oregon (This genus?).
1910 A, 101. Oligocene; Oregon (This genus?).
Cook, H. J. 1912 D, 35. Oligocene (Chadron); Nebraska. 38, 39 Oligocene (Brule); Nebraska.
Matthew, W. D. 1901 B, 358.
1902 E, 314. South Dakota and Colorado.
1909 C, 104, 106. Oligocene (Lower, Middle, Upper); Nebraska, South Dakota, Wyoming.
Osborn, H. F. 1918 A, 16. Oligocene (Alum Bluff); Florida.
Sellards, E. H. 1916 B, 89, pl. ii, fig. 2 (This genus?). Miocene; Florida.
Wanless, H. R. 1923 A, 220. Oligocene (White River); Nebraska.

TRIGENICUS Douglass. Type *T. socialis* Douglass.

Douglass, E. 1903 A, 162.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 111.

Trigenicus socialis Douglass.

Douglass, E. 1903 A, 149, 162, fig. 6.
1907 A, 822.
Matthew, W. D. 1909 C, 104.
Oligocene (Lower White River); Montana

HYPISODUS Cope. Type *H. ringens* Cope.

Hay, O. P. 1902 A, 672.
Abel, O. 1913 B, 745.
  1914 A, 182.
  1919 A, 815.
Cope, E. D. 1880 U, 155, 156.
Kampfen, P. N. 1905 A, 595.
Loomis, F. B. 1910 B, 321.
Lull, R. S. 1922 B, 118.
Matthew, W. D. 1901 B, 369, 440, 441.
  1902 E, 311, 316, fig. 4.
  1905 A, 24.
  1908 A, 539, 553, 559.
  1909 C, 111.
  1910 A, 42.
  1924 E, 748.
  1926 B, 5.
Osborn, H. F. 1909 D, 74.
  1910 B, 220, 551.
Palmer, T. S. 1904 A, 341, 911.
Schlosser, M. 1903 I, 139, 188, 211.
  1904 C, 70, 76, 96.
Scott, W. B. 1913 A, 258, 408.
Sinclair, W. J. 1905 A, 131.
Troxell, E. L. 1920 A, 391.
Wallace, A. R. 1876 A, I, 138.
Weber, M. 1904 A, 662.
Weber and Abel 1928 A, 606.
Winge, H. 1906 A, 107.
Zittel and Schlosser 1911 A, 496.
  1923 A, 587.

Hypisodus alacer Troxell.

Troxell, E. L. 1920 A, 393, 397, figs. 1-3.
O'Harra, C. C. 1920 A, 153.
  Oligocene (Brule); Nebraska.

Hypisodus minimus Cope.

Hay, O. P. 1902 A, 672.
Abel, O. 1913 B, 745, fig. 68.
  1914 A, 182, fig. 139.
Cook, H. J. 1912 D, 38.
Matthew, W. D. 1901 B, 358, 440, text-fig. 34.
  1902 E, 311, 316, fig. 1.
  1909 C, 106.
Trouessart, E. L. 1905 A, 683.
Troxell, E. L. 1920 A, 391, 396, fig. 4.
Weber and Abel 1928 A, 607, fig. 400.
Zittel and Schlosser 1911 A, 497, fig. 693.
  1923 A, 587, fig. 734.
  Oligocene (Middle); Colorado: (Brule); Nebraska, South Dakota, Wyoming.

NANOTRAGULUS Lull. Type *N. loomisi* Lull.

Lull, R. S. 1922 B, 111, 116.
Zittel and Schlosser 1923 A, 579 (Nannotragulus).

Nanotragulus loomisi Lull.

Lull, R. S. 1922 B, 111, 116, fig. 1.
Matthew, W. D. 1926 B, 3, 5, fig. 3.
  Lower Miocene (Lower Harrison); Wyoming.

Nanotragulus ordinatus (Matthew).

Matthew, W. D. 1907 A, 172, 218 (Hypertragulus).
Lull, R. S. 1922 B, 111, 115 (Hypertragulus).
Matthew, W. D. 1909 C, 114 (Hypertragulus).
  1926 B, 4 (To Nanotragulus).
  Miocene (Lower); South Dakota.

OROMERYX Marsh. Type *O. plicatus* Marsh.

Hay, O. P. 1902 A, 672.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 103.
Osborn, H. F. 1910 B, 170, 550.
Palmer, T. S. 1904 A, 481, 912.
Peterson, O. A. 1919 A, 100.
Stehlin, H. G. 1910 A, 1088.
Trouessart, E. L. 1905 A, 683.
Zittel and Schlosser 1923 A, 574.

Oromeryx plicatus Marsh.

Hay, O. P. 1902 A, 672.
Matthew, W. D. 1909 C, 100.
Peterson, O. A. 1919 A, 98.
  Upper Eocene (Uinta); Utah.

Oromeryx sp. indet.

Peterson, O. A. 1919 A, 98. Upper Eocene (Uinta); Utah.

CAMELOMERYX Scott. Type *C. longiceps* Scott.

Hay, O. P. 1902 A, 672.
Abel, O. 1913 B, 744.
Haug, E. 1911 A, 1528.
Kampfen, P. N. 1905 A, 597.
Matthew, W. D. 1908 A, 557, 559.
  1909 C, 100.
Osborn, H. F. 1910 B, 170.
Palmer, T. S. 1904 A, 155, 911, 920.
Peterson, O. A. 1912 B, 166.
  1919 A, 98.
Stehlin, H. G. 1910 A, 1088.
Trouessart, E. L. 1905 A, 683.
Weber, M. 1904 A, 662.
Zittel and Schlosser 1911 A, 494.
  1923 A, 584, 669.

Camelomeryx longiceps Scott.

Hay, O. P. 1902 A, 672.
Matthew, W. D. 1909 C, 100.
Trouessart, E. L. 1905 A, 683.
  Upper Eocene (Uinta); Utah.

LEPTOTRAGULUS Scott and Osborn. Type *L. proavus* Scott and Osborn.

Hay, O. P. 1902 A, 674.
Granger, W. 1910 A, 249.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 103, 111.
  1910 A, 42.
Osborn, H. F. 1910 B, 168, 170, 550.

Palmer, T. S. 1904 A, 373, 921.
Peterson, O. A. 1919 A, 95, 100.
Schlosser, M. 1901 D, 462.
Scott, W. B. 1913 A, 267, 362.
Stehlin, H. G. 1910 A, 1088.
Trouessart, E. L. 1905 A, 684.
Weber, M. 1904 A, 661.
Woodward, A. S. 1898 D, 330.
Zittel and Schlosser 1911 A, 484.
1923 A, 574, 668, 669.

Leptotragulus medius Peterson.

Peterson, O. A. 1919 A, 94, pl. xxxvii, figs. 1-4.
Upper Eocene (Uinta); Utah.

Leptotragulus proavus Scott and Osborn.

Hay, O. P. 1902 A, 674.
Matthew, W. D. 1909 C, 100.
Peterson, O. A. 1919 A, 93, pl. xxxvii, figs. 5-13.
Schlosser, M. 1901 D, 463 (Parameryx).
Trouessart, E. L. 1905 A, 684.
Upper Eocene (Uinta); Utah.

Leptotragulus profectus Matthew.

Matthew, W. D. 1903 B, 224, figs. 18, 19.
1909 C, 104 (This genus?).
Peterson, O. A. 1919 A, 97.
Trouessart, E. L. 1905 A, 684.
Lower Oligocene (White River); Montana.

Leptotragulus sp. indet.

Matthew, W. D. 1909 C, 100. Upper Eocene (Uinta); Wyoming.

PARAMERYX Marsh. Type *P. lævis* Marsh.

Hay, O. P. 1902 A, 674.
Heilprin, A. 1887 A, 376.
Palmer, T. S. 1904 A, 514, 921.
Peterson, O. A. 1919 A, 99.
Schmidt, O. 1886 A, 156.
Trouessart, E. L. 1905 A, 684.
Weber, M. 1904 A, 661.
Zittel and Schlosser 1911 A, 484 (Syn. of Leptotragulus).
1923 A, 574 (Syn. of Leptotragulus).

Parameryx lævis Marsh.

Hay, O. P. 1902 A, 674.
Matthew, W. D. 1909 C, 100 (Leptotragulus).
Peterson, O. A. 1919 A, 99.
Upper Eocene (Uinta); Utah.

Parameryx sulcatus Marsh.

Hay, O. P. 1902 A, 674.
Matthew, W. D. 1909 C, 100 (Leptotragulus).
Peterson, O. A. 1919 A, 99.
Upper Eocene (Uinta); Utah.

LEPTOREODON Wortman. Type *L. marshi* Wortman.

Hay, O. P. 1902 A, 672.
Cossmann, M. 1899 B, 83.
Kampfen, P. N. 1905 A, 592.
Matthew, W. D. 1909 C, 103.
Osborn, H. F. 1910 B, 168, 550.
Peterson, O. A. 1919 A, 98, 100.
Scott, W. B. 1913 A, 362.
Stehlin, H. G. 1908 A, 835.
1910 A, 1088.
Trouessart, E. L. 1905 A, 684.
Weber, M. 1904 A, 662.
Zittel and Schlosser 1911 A, 494.
1923 A, 584.

Leptoreodon gracilis Scott.

Hay, O. P. 1902 A, 672.
Trouessart, E. L. 1905 A, 684.
Upper Eocene (Uinta); Utah.

Leptoreodon marshi Wortman.

Hay, O. P. 1902 A, 672.
Matthew, W. D. 1909 C, 100.
Peterson, O. A. 1919 A, 98.
Schlosser, M. 1901 D, 461, 462.
Trouessart, E. L. 1905 A, 684.
Upper Eocene (Washakie); Wyoming.

HYPERTRAGULUS Cope. Type *H. calcaratus* Cope.

Hay, O. P. 1902 A, 674.
Cope, E. D. 1880 U, 155, 156.
Dall and Harris 1892 A, 289.
Granger, W. 1910 A, 249.
Haug, E. 1911 A, 1528, 1705.
Lambe, L. M. 1905 D, 370 A.
Lull, R. S. 1922 B, 111.
Matthew, W. D. 1901 B, 369, 440, 441.
1902 E, 315, fig. 3.
1905 A, 24.
1907 A, 176, 218.
1908 A, 539, 552, 559.
1909 C, 111, 120.
1910 A, 42.
1915 A, 244.
1924 E, 748.
Osborn, H. F. 1909 D, 70, 75.
Osborn, H. F. 1910 B, 215, 220, 231, 551.
1912 G, 246, 249.
Palmer, T. S. 1904 A, 340, 921.
Peterson, O. A. 1919 A, 97, 100.
Schlosser, M. 1901 A, 490.
1901 G, 490.
1903 I, 139.
1904 C, 97.
Scott, W. B. 1913 A, 683.
Sinclair, W. J. 1905 A, 131.
1924 A, 128.
Trouessart, E. L. 1905 A, 685.
Wallace. A. R. 1876 A, I, 138.
Weber, M. 1904 A, 661.
Weber and Abel 1928 A, 602.
Zittel and Schlosser 1911 A, 489.
1923 A, 579, 672.

Hypertragulus calcaratus Cope.

Hay, O. P. 1902 A, 674.
Cook, H. J. 1912 D, 37.
Douglass, E. 1903 A, 151.
Lull, R. S. 1922 B, 112 (H. calcaratus, H. tricostatus).
Matthew, W. D. 1901 B, 358.
1902 E, 316.
1909 C, 106, 114 (This species?).
1926 B, 3.
O'Harra, C. C. 1920 A, 158.
Trouessart, E. L. 1905 A, 685.
Oligocene (Middle); Colorado, South Dakota: Miocene (Lower); Montana, South Dakota?, Nebraska.

Hypertragulus hesperius Hay.

Hay, O. P. 1902 A, 675.
Lull, R. S. 1922 B, 111, 113.
Matthew, W. D. 1907 A, 218.
1909 C, 109.
1926 B, 3.
Merriam and Sinclair 1907 A, 187 (H. calcaratus? =H. hesperius).
Trouessart, E. L. 1905 A, 685.
Upper Oligocene (John Day); Oregon.

Hypertragulus minutus Lull.

Lull, R. S. 1922 B, 111, 115.
Upper Oligocene (Upper John Day); Oregon.

Hypertragulus transversus Cope.

Hay, O. P. 1902 A, 675.
Lambe, L. M. 1904 C, 29, 38, 51.
1905 D, 367 A.
1908 A, 10, 32.
Lull, R. S. 1922 B, 111.
Matthew, W. D. 1902 E, 316 (This genus?).
1909 C, 104 (Heteromeryx?).
Trouessart, E. L. 1905 A, 685.
Lower Oligocene (Swift Current); Canada.

Hypertragulus sp.? indet.

Matthew, W. D. 1902 E, 316. Oligocene (Swift Current Creek); Colorado.
1909 C, 106.
Merriam and Sinclair 1907 A, 188, 190, 191, 192. Oligocene (John Day); Oregon.
Sinclair, W. J. 1905 A, 128, pl. xiv, fig. 3. Oligocene? (John Day); Oregon.
Stock, C. 1920 A, 269, figs. 2, 3. Oligocene (San Lorenzo); California.

HETEROMERYX Matthew. Type *H. dispar* Matthew.

Matthew, W. D. 1905 A, 23, 24, fig. 6.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1908 A, 552, 559.
1909 C, 111.
1910 A, 42.
1915 A, 244.
1926 B, 5.
Zittel and Schlosser 1911 A, 495.
1923 A, 585.

Heteromeryx dispar Matthew.

Matthew, W. D. 1905 A, 23, figs. 4, 5.
Cook, H. J. 1912 D, 35.
Matthew, W. D. 1909 C, 104.
O'Harra, C. C. 1920 A, 150.
Lower Oligocene (Chadron); Nebraska.

ALLOMERYX Sinclair. Type *A. planiceps* Sinclair.

Sinclair, W. J. 1905 A, 129.
Zittel and Schlosser 1911 A, 489.
1923 A, 579.

Allomeryx planiceps Sinclair.

Sinclair, W. J. 1905 A, 129, pl. xiv, figs. 1-2.
Lull, R. S. 1922 B, 111, 114.
Matthew, W. D. 1909 C, 109 (Hypertragulus).
Merriam and Sinclair 1907 A, 187, 188, 190.
Upper Oligocene (John Day); Oregon.

PROTOCERATIDÆ Marsh.

Marsh, O. C. 1891 A, 81.
Hay, O. P. 1902 A, 673 (Protoceratinæ).
Abel, O. 1913 B, 729, 744 (Protoceratinæ).
1914 A, 172, 174 (Protoceratinæ).
1919 A, 810 (Protoceratinæ).
1920 A, 437 Protoceratinæ).
Beddard, F. E. 1902 A, 284 (Protoceratinæ).
Case, E. C. 1899 B, 174 (Protoceratidæ).
Matthew, W. D. 1908 A, 561 (Protoceratinæ).
1909 C, 120.
1915 A, 251.
Osborn, H. F. 1910 B, 551 (Protoceratinæ).
Palacký, J. 1903 B, 312 ("protoceratiden").
Palmer, T. S. 1904 A, 766, 927.
Schlosser, M. 1900 D, 139.
1903 I, 111, 211.
1907 B, 485 ("protoceratiden").
Trouessart, E. L. 1905 A, 685.
Van Bemmelen, J. F. 1918 A, 572 (Protoceratinæ).
Weber and Abel 1928 A, 599, 600 (Proceratinæ).
Winge, H. 1906 A, 70 (Protoceratini).
Zittel and Schlosser 1911 A, 494 (Protoceratinæ).
1923 A, 584 (Protoceratinæ).

PROTOCERAS Marsh. Type *P. celer* Marsh.

Hay, O. P. 1902 A, 673.
Abel, O. 1913 B, 744.
Barbour, E. H. 1906 B, 623.
Beddard, F. E. 1902 A, 284.
Gaudry, A. 1896 A, 181.
Haug, E. 1911 A, 1529.
Kampfen, P. N. 1905 A, 595.
Lee, Stone, Gale 1915 A, 34, pl. vii.
Loomis, F. B. 1925 E, 595, figs. 9, 10.
1928 B, 542.

Lull, R. S. 1904 C, 8.
1917 B, 296.
Matthew, W. D. 1901 B, 370, 371, 441.
1905 A, 24.
1907 A, 178.
1908 A, 552, 559.
1909 C, 111.
1910 A, 42.
1915 A, 244.
1924 E, 748.
1926 B, 5 (Protoceras).
O'Harra, C. C. 1910 A, 112, 146.
1920 A, 129.
Osborn, H. F. 1907 G, 162, fig. 135.
1909 D, 64, 65, 74.
1910 B, 629.
1912 G, 243, fig. 8.
Palmer, T. S. 1904 A, 581, 927.
Schlosser, M. 1900 D, 139.
1901 A, 490.
1901 G, 489.
1903 I, 111.
Schuchert, C. 1910 A, 599.
Scott, W. B. 1913 A, 252, 258, 445, fig. 133.
Trouessart, E. L. 1905 A, 685.
Weber, M. 1904 A, 662.
Weber and Abel 1928 A, xxiii, 601.
Winge, H. 1906 A, 105.
Zittel and Schlosser 1911 A, 495.
1923 A, 585, 669, 670.

Protoceras celer Marsh.

Hay, O. P. 1902 A, 673.
Abel, O. 1914 A, 175, fig. 132.
Abel, O. 1919 A, 811, fig. 611.
Cook, H. J. 1912 D, 39.
Lee, Stone, Gale 1915 A, 40, pl. vii.
Matthew, W. D. 1909 C, 109.
O'Harra, C. C. 1910 A, 112, pls. xlv, xlvi.
1920 A, 129, pls. xxiii, xliii, xliv; text-fig. 66.
Osborn, H. F. 1904 F, 15, 31, 40.
1910 B, 225, fig. 111.
Schlosser, M. 1900 D, 139.
Scott, W. B. 1913 A, 405, 406, figs. 216, 217.
Stromer, E. 1912 A, 194, fig. 177.
Trouessart, E. L. 1905 A, 685.
Weber and Abel 1928 A, 601, fig. 395.
Zittel and Schlosser 1911 A, 495, fig. 691.
1923 A, 585, fig. 732.

Upper Oligocene (Brule); South Dakota, Nebraska.

Protoceras comptus Marsh.

Hay, O. P. 1902 A, 673.
Cook, H. J. 1912 D, 39.
Matthew, W. D. 1909 C, 109.
O'Harra, C. C. 1920 A, 154.
Trouessart, E. L. 1905 A, 685.

Upper Oligocene (Brule); Nebraska.

Protoceras nasutus Marsh.

Hay, O. P. 1902 A, 673.
Cook, H. J. 1912 D, 39 (P. nastus).
Matthew, W. D. 1909 C, 109.
Trouessart, E. L. 1905 A, 685.

Upper Oligocene (Brule); Nebraska.

CALOPS Marsh. Type *C. cristatus* Marsh.

Hay, O. P. 1902 A, 673.
Haug, E. 1911 A, 1529.
Matthew, W. D. 1909 C, 111.
Palmer, T. S. 1904 A, 151, 821.
Schlosser, M. 1900 D, 140.
Zittel and Schlosser 1911 A, 495.

Calops consors Marsh.

Hay, O. P. 1902 A, 673.
Cook, H. J. 1912 D, 39.
Matthew, W. D. 1909 C, 109.
Schlosser, M. 1900 D, 140.

Upper Oligocene (Brule); region of South Dakota and adjoining parts of Nebraska and Wyoming.

Calops cristatus Marsh.

Hay, O. P. 1902 A, 673.
Cook, H. J. 1912 D, 39.
Matthew, W. D. 1909 C, 109.
O'Harra, C. C. 1920 A, 154.

Upper Oligocene (Brule); region of South Dakota and adjoining parts of Nebraska and Wyoming.

SYNDYOCERAS Barbour. Type *S. cooki* Barbour.

Barbour, E. H. 1905 B, 797.
Abel, O. 1913 B, 744, fig. 5.
1914 A, 175, fig. 132.
1920 A, 437, fig. 664.
Barbour, E. H. 1905 A, 2 (Separate).
1906 A, 289.
1906 B, 623.
1906 C, 781.
Jaekel, O. 1911 A, 236, fig. 264.
Lee, Stone, Gale 1915 A, 34, pl. vi.
Matthew, W. D. 1909 C, 120.
1910 A, 42 (This genus?).
Osborn, H. F. 1907 F, 872.
1909 D, 74.
1910 B, 236, 237, 551, figs. 120, 121.
Peterson, O. A. 1912 B, 167.
Scott, W. B. 1913 A, 241, 258, 404, 407.
Weber and Abel 1928 A, 600.
Zittel and Schlosser 1911 A, 495.

Syndyoceras cooki Barbour.

Barbour, E. H. 1905 B, 797, fig.
1905 A, pl. i.
1924 A, 13 ("Syndyceros").
Cook, H. J. 1912 D, 41.
Matthew, W. D. 1909 C, 114.
O'Harra, C. C. 1920 A, 131, 158, pls. xi, xlv; text-fig. 67.
Peterson, O. A. 1906 C, 35.
Schlosser, M. 1907 B, 485.
Scott, W. B. 1913 A, 403, fig. 213.

Lower Miocene (Harrison); Nebraska.

Superfamily TRAGULOIDÆ, new form.

Hay, O. P. 1902 A, 681 (Traguloidea).
Beddard, F. C. 1902 A, 281 (Tragulina).
Flower and Lydekker 1891 A, 305 (Tragulina).
Gill, T. 1872 B, 9, 73, 80 (Traguloidea).
Hogben, L. T. 1919 A, 75 (Tragulina).
Osborn, H. F. 1910 B, 550 (Tragulina).
Scott, W. B. 1913 A, 409 (Tragulina).
Weber, M. 1904 A, 644 (Traguloidea).
Weber and Abel 1928 A, 426, 562, 897 (Traguloidea).
Weber and Burlet 1927 A, xv (Traguloidea).
Wright, R. R. 1883 A, 287 (Tragulina).

TRAGULIDÆ Edwards.

Edwards, A. M. 1864 A, 157.
Hay, O. P. 1902 A, 681.
Arldt, T. 1907 D, 686.
Beddard, F. E. 1902 A, 282.
Depéret, C. 1912 A, 708 ("tragulidés").
Doran, A. H. G. 1878 A, 423.
Kowalewsky, W. 1877 A, 145, 153 ("traguliden").
Leuthardt, F. 1891 A, 124 ("traguliden").
Matthew, W. D. 1928 B, 968, 981, fig. 16.
Palmer, T. S. 1904 A, 774, 930.
Schlosser, M. 1903 I, 139 ("traguliden").
Trouessart, E. L. 1905 A, 685.
Weber and Abel 1928 A, 504, 538.
Winge, H. 1906 A, 70, 104.
Zittel and Schlosser 1911 A, 486.
    1923 A, 576.

No American genera are at present referred to this family.

Superfamily CERVOIDÆ, new name.

Weber and Abel 1928 A, 426, 538 (Pecora, in part).
Zittel and Schlosser 1911 A, 490 (Cervicornia).
    1923 A, 579 (Cervicornia).

PALÆOMERYCIDÆ Lydekker.

Lydekker, R. 1883 (*fide* T. S. Palmer).
Matthew, W. D. 1904 A, 102, 127 (Palæomerycinæ).
    1924 C, 193.
    1925 D, 33.
Osborn, H. F. 1910 B, 551.
Palmer, T. S. 1904 A, 921.
Pilgrim, G. E. 1911 A, 5, 23.
Schlosser, M. 1903 I, 110, 185 ("palæomeryciden").
    1904 A, 497 ("palæomeryciden").
    1906 A, 113 ("palæomeryciden").
    1924 A, 89.
Trouessart, E. L. 1905 A, 691 (Cervulinæ).
Weber, M. 1904 A, 672.
Zittel and Schlosser 1911 A, 492 (Cervulinæ).
    1923 A, 581 (Cervulinæ).

DREPANOMERYX Sinclair. Type *D. falciformis* Sinclair.

Sinclair, W. J. 1915 A, 77, 78, 90.
Zittel and Schlosser 1923 A, 679.

Drepanomeryx falciformis Sinclair.

Sinclair, W. J. 1915 A, 77, 90, figs. 14-16.
Cook, H. J. 1922 B, 13, 14, 21, 1 fig. (This genus and species?).
Matthew, W. D. 1918 A, 187.
    1924 C, 68.
Merriam, J. C. 1917 A, 437.

Upper Miocene (Lower Snake Creek); Nebraska.

PALÆOMERYX Meyer. Species included *P. bojani* and *P. kaupii.*

Hay, O. P. 1902 A, 682.
Abel, O. 1909 E (248).
Bronn, H. G. 1838 A, 1186.
Cope, E. D. 1887 B, 397.
Depéret, C. 1892 A, 91.
    1912 A, 709.
Douglass, E. 1909 A, 458.
Gadow, H. 1902 A, 217.
Grant, M. 1904 B, 202.
Haug, E. 1911 A, 1706.
Heilprin, A. 1887 A, 381.
Hensel, R. 1879 A, 555.
Jaeger, G. F. 1850 A, 826.
Loomis, F. B. 1925 E, 603, figs. 19, 20.
    1928 B, 534.
Major, C. J. F. 1877 A, 15.
    1880 A, 33.
Matsumoto, H. 1918 C, 76.
    1921 A, 88.
Matthew, W. D. 1902 F, 319.
    1904 A, 104, 127.
    1924 C, 70, 205.
Matthew and Cook 1909 A, 408.
Osborn, H. F. 1905 I, 106.
    1909 D, 77, 78, 80.
    1910 B, 626.
Pavlow, M. 1903 B, 215.
Peterson, O. A. 1919 A, 74.
Pictet, F. J. 1853 A, 350.
Pilgrim, G. E. 1911 A, 5, 23.
Schlosser, M. 1902 J, 181.
    1903 A, 292.
    1903 I, 110, 113, 185.
    1904 A, 497.
    1916 A, 13, pls. i, ii.
    1924 B, 636.
Sinclair, W. J. 1915 A, 77.
Steinmann, G. 1907 A, 497.
Trouessart, E. L. 1905 A, 692.
Van Bemmelen, J. F. 1918 A, 573.
Weber and Abel 1928 A, xix, 575, 591, 598.
Zittel and Schlosser 1911 A, 493.
    1923 A, 581, 673, 674.

Palæomeryx americanus Douglass.

Hay, O. P. 1902 A, 682.
Douglass, E. 1903 A, 155.
1909 A, 458, 472, pl. lxii, figs. 1, 2; pl. lxiii, fig. 2 (Dromomeryx?).
Lull, R. S. 1920 A (Dromomeryx); 128 (Palæomeryx).
Matthew, W. D. 1904 A, 104.
1908 A, 546.
1909 C, 118.
Trouessart, E. L. 1905 A, 692.
Upper Miocene (Madison Valley); Montana.

Palæomeryx teres (Cope).

Cope, E. D. 1874 U, 150 (Cosoryx).
Hay, O. P. 1902 A, 683 (Merycodus).
Matthew, W. D. 1904 A, 103, 123 (Merycodus?).
1909 C, 118.
1924 C, 200 (Dicrocerus).
Merrill, G. P. 1907 A, 31 (Cosoryx); 33 (Dicrocerus); 53 (Palæomeryx).
Trouessart, E. L. 1905 A, 712 (Merycodus).
Lower Pliocene (Sante Fe); New Mexico.

Palæomeryx trilateralis (Cope).

Hay, O. P. 1902 A, 683 (Merycodus).
Matthew, W. D. 1904 A, 103, 123 (Merycodus).
1909 C, 118.
1924 C, 200 (Dicrocerus. This genus?).
Merrill, G. P. 1907 A, 34 (Dicrocerus).
Trouessart, E. L. 1905 A, 712 (Merycodus).
Upper Miocene (Santa Fe); New Mexico.

Palæomeryx sp. indet.

Barbour and Cook 1917 B, 180. Pliocene (Valentine); Nebraska.
Cook, H. J. 1912 D, 43, 45. Pliocene (Sheep Creek); Nebraska.
1922 B, 13 (This genus?). Pliocene (Snake Creek); Colorado.
Furlong, E. L. 1927 A, 159.
Matthew, W. D. 1904 A, 129. Miocene; Colorado.
1909 C, 115, 118. Miocene; Colorado, Oregon: (Arikaree); South Dakota.
Matthew and Cook 1909 A, 408, figs. 21, 22.
Merriam and Sinclair 1907 A, 196. Miocene (Mascall); Oregon (Genus doubtful).
Merrill, G. P. 1907 A, 28, 53.

CERVIDÆ Gray.

Gray, J. E. 1821 A, 307.
Hay, O. P. 1902 A, 681.
Abel, O. 1912 F, 630 ("hirsch").
1913 B, 729, 743.
1914 A, 172.
1919 A, 810.
1920 A, 637 ("cerviden").
1921 A, 181, 252 ("hirschen").
Adloff, P. 1914 A, 359 ("cerviden").
Allen, J. A. 1905 A, 663.
Arldt, T. 1907 B, 452 ("cerviden").
1907 D, 644.
Atzkern, J. 1923 A, 126 ("cerviden").
Baird, S. F. 1876 A, ccviii ("deer").
Baur, G. 1886 N, 117 ("cerviden").
Beddard, F. E. 1902 A, 291.
Behlen, H. 1906 A ("cerviden").
Black, D. 1915 A, 346.
Bonaparte, C. L. 1832 A, 292.
Botezat, E. 1903 A, 104 ("cerviden").
1904 A, 593 ("cerviden").
Boule and Thevenin 1920 A, 168 ("cervidés").
Brandt and Woldrich 1887 A, 12 ("cerviden").
Brown, A. E. 1904 B, 79.
Cameron, A. G. 1910 A, 51.
1910 B, 154, 215.
Carus, V. 1875 A, 153 (Cervina).
Case, E. C. 1899 B, 174 (Cervicorna).
Chandler, A. C. 1914 B, 134.
Chomenko, J. 1913 A, 138.
Cleland, J. 1863 B, 298 ("deer").
Cope, E. D. 1891 N, 87.
Cuvier, F. 1825 A, 231 ("cerfs").
Cuvier, G. 1805 A ("cerfs").
1825 A, IV, 23-106, pls. ("cerfs").
Dawkins, W. B. 1878 A, 402.
1887 A, 1, pls. i-viii.
Depéret, C. 1905 A, 1518 ("cervidés").
1907 B ("cervidés").
Doran, A. H. G. 1878 A, 429, pl. lxi, fig. 20 ("deer").
Dürst, J. U. 1902 A, 198 ("cerfs").
Elliot, D. G. 1901 A, 33.
Flower, W. H. 1873 B, 103.
Freund, L. 1906 A, 114 ("cerviden").
Furlong, E. L. 1927 A, 152-175.
Gadow, H. 1902 A, 206.
1913 A, 132 ("deer").
Gervais, P. 1859 A, 141 ("cervidés").
Giebel, C. G. 1883 A, 27 ("hirsche").
Gill, T. 1877 A, 135.
Grant, M. 1904 B, 200, 202, 205.
Gray, J. E. 1821 A, 307.
Gregory, W. K. 1927 A, 601 ("deer").
Hamilton, M. of, 1910 A, 199 (Plesiometacarpalia, Telemetacarpalia).
Hay, O. P. 1912 D, 610.
1914 A, 245.
1923 A, 481.
1927 E, 76 ("deer").
Herman, R. 1909 A, 86 (Plesiometacarpalia, Telemetacarpalia).
Hilzheimer, M. 1922 A, 712, 741 ("cerviden").
Hoernes, R. 1886 A, 677.
Holding, R. E. 1905 A, 1.
Hrdlička, A. 1903 A, 375.
Huxley, T. H. 1870 F, 537.
Ihering, H. 1909 A, 285 ("rehe").
Kampfen, P. N. 1905 A, 600.
Khomenko, J. 1913 A, 138.
Kingsley, J. S. 1925 A, 194, fig. 204.
Knottnerus-Meyer, T. 1907 A, 11, 97.
Korff, K. 1914 A, 693.
Laloy, L. 1907 A, 586 ("cervidés").
Lankester, E. R. 1907 A, 108.
Leche, W. 1887 A.
Le Damany, P. 1906 B, 163 ("cerfs").
Leunis and Ludwig 1883 A, 259 (Cervina).

Lobley, J. L. 1908 A, 200, 204.
Loomis, F. B. 1925 B, 226 ("deer").
1925 E, 585, 591, 597, figs. 5, 11, 12 ("deer").
1928 B, 531, figs. 1-6.
Lydekker, R. 1903 B, 201.
1903 D, 124 ("deer").
1909 C, 454.
1913 B, 5.
1915 D, 1.
Mackenzie, W. 1911 A, 363.
Major, C. J. F. 1901 B, 241.
Matschie, P. 1899 A, 130 ("cerviden").
Matthew, W. D. 1904 A, 102.
1908 A, 535, 546, 548, 557, 561.
1909 C, 90, 115, 118, 120.
1910 G, 155.
1913 B, 291.
1915 A, 185, 245, 247, 254, fig. 23.
1915 K, 457, 474, fig. 17 ("deer").
1917 D, 208 ("deer").
1918 A, 221.
1924 C, 193, 202.
1924 E, 745.
1925 D, 34.
1926 B, 6.
1928 B, 968, 980, 981, fig. 16 ("deer").
Matthew and Cook 1909 A, 367, 407.
Matthew and Granger 1924 A, 4, 6.
Meckel, J. F. 1823 A, 4 ("hirsche").
1825 A ("hirsche").
Merriam, J. C. 1915 E, 229.
Miller, G. S. 1912 A, 962.
1912 B, 385.
1924 C, 483.
Murie, J. 1871 B, 440, 446.
Nitsche, H. 1898 A, 1, 58 ("cerviden").
Nopcsa, F. 1923 H, 177 ("cerviden").
O'Harra, C. C. 1910 A, 117, 146.
1920 A, 138.
Osborn, H. F. 1905 I, 106.
1909 D, 123.
1910 B, 609.
Owen, R. 1845 B, 532, 540.
1868 A, 871.
Palacký, J. 1903 B, 313 ("cerviden").
Pander and Alton 1823 A, 7 ("hirsche").
Paulli, S. 1899 A, 165 (Cervus).
Petersen, G. 1921 A, 294.
Pictet, F. J. 1853 A, 345 ("cervidés").
Pocock, R. I. 1910 A, 97 ("deer," Plesiometacarpalia, Telemetacarpalia).
1910 B, 199.
1912 A, 773.
Puccioni, N. 1908 A, 49 ("cervi").
Reid, G. A. 1898 A, 359 ("stags").
Reynolds, S. H. 1897 A, 469, 507.
Rhumbler, L. 1913 A, 577 ("hirsche").
1913 B, 81 ("cerviden").
1914 A, 155 ("cerviden").
Robin and Herrmann 1882 A, 210 ("cervidés").
Rörig, A. 1901 A, 55 ("cerviden").
1902 A, 538 ("cerviden").
1905 A, 17.
Rutten, L. M. R. 1909 A, 62.
Scharff, R. F. 1895 A, 447.
1907 B, 165.
1911 A, 109.
Schlosser, M. 1902 J, 240, 256 ("cerviden").
1903 I, 113, 185.
1911 A, 165 ("cerviden").
1924 B, 634 ("cerviden").
Schmidt, O. 1886 A, 158.
Schwarz, E. 1924 A, 420 ("deer").
Sclater, P. L. 1866 A, 403.
Scott, W. B. 1913 A, 362, 411, 678 (Cervidæ); 411, 421 (Cervicornia).
1916 A, 117 ("deer").
1917 A, 175 ("deer").
Serres, M. 1860 A, 301 ("cerfs").
Seton, E. T. 1909 A, 37.
Stehlin, H. G. 1910 A, 1089 ("cerviden").
Steinmann, G. 1907 A, 497.
Taschenberg, O. 1899 A, 4522.
Thacker, A. G. 1914 A, 283 ("deer").
Thomson, A. 1902 A, 102.
Tims, H. W. M. 1903 A, 143.
Toldt, C. 1905 A, 330, figs. (Cervus).
Tornier, G. 1891 A, 199 ("cerviden").
Tornquist, A. 1897 A, 683 ("hirsche").
Trouessart, E. L. 1905 A, 690.
1906 A, 66.
Underhill, B. M. 1910 A, 82.
Van Bemmelen, J. F. 1918 A, 571.
Vicq-d'Azyr, F. 1792 A, cviii (Ramosi).
Wallace, A. R. 1876 A, I, 120, 155; II, 218.
1894 A, 435.
Weber, M. 1904 A, 643, 666.
Weber and Abel 1928 A, 426, 567, 574.
Williston, S. W. 1912 E, 261.
Winge, H. 1906 A, 70, 109 (Cervini).
Woodward, A. S. 1898 D, 335 ("deer").
1923 C, 41.
Woodward, H. 1904 B, 162.
Wright, R. R. 1883 A, 289.
Zimmer, A. 1905 A, 2 ("cerviden").
Zittel and Schlosser 1911 A, 490 (Cervicornia).
1923 A, 579 (Cervicornia).

CERVULINÆ Sclater.

Sclater, P. L. 1870, Proc. Zool. Soc. Lond., 115.
Zittel, K. A. 1893 B, 385.
Zittel and Schlosser 1911 A, 492.
1923 A, 382.

MACHÆROMERYX Matthew. Type *M. tragulus* Matthew.

Matthew, W. D. 1926 B, 1, 6.

Machæromeryx tragulus Matthew.

Matthew, W. D. 1926 B, 1, figs. 1, 2.
Lower Miocene (Upper Harrison); Nebraska.

BLASTOMERYX Cope. Type *Merycodus gemmifer* Cope.

Hay, O. P. 1902 A, 682.
Abel, O. 1913 B, 743.
Abel, O. 1914 A, 172, fig. 129.
1919 A, 809.

Boule and Thevenin 1920 A, 169, 170.
Brown, A. E. 1904 B, 81.
Cope, E. D. 1880 U, 157.
Depéret, C. 1912 A, 709.
Douglass, E. 1909 A, 457, 477.
Frick, C. 1926 C, 446.
Haug, E. 1911 A, 1705, 1706.
Loomis, F. B. 1925 A, 248.
1925 E, 597, figs. 11, 12.
1928 B, 535, fig. 5.
Lull, R. S. 1920 A, 93, 127.
Lydekker, R. 1909 C, 454.
Matsumoto, H. 1918 C, 76.
Matthew, W. D. 1902 F, 319.
1904 A, 101, 103, 123.
1907 A, 173, 176, 178, 219.
1908 A, 535, 536, 546, 549, 557, 562, figs. 12, 13.
1909 C, 120.
1915 A, 245, 247.
1915 K, 457.
1918 A, 217 (Cervavus).
1923 B, 109.
1924 C, 70, 193.
1924 E, 748.
1926 B, 1, 6.
Matthew and Granger 1924 A, 4, 6.
Merriam, J. C. 1911 B, 207, 215, 217, 221.
1917 A, 437.
1919 A, 451, 532.
Osborn, H. F. 1905 H, 222.
1905 I, 106.
1907 F, 872.
1909 D, 122.
1910 B, 607.
1912 G, 247, 249.
1918 A, 13.
Palacký, J. 1903 B, 312.
Palmer, T. S. 1904 A, 138, 922.
Peterson, O. A. 1912 B, 166.
Scharff, R. F. 1911 A, 110.
Scott, W. B. 1913 A, 224, 241, 414, 657.
Weber, M. 1904 A, 672, 682.
Weber and Abel 1928 A, 591, 603.
Zittel and Schlosser 1911 A, 489.
1923 A, 579, 672, 673 (Blastomeryx); 582, 679 (Cervavus).

Blastomeryx advena Matthew.

Matthew, W. D. 1907 A, 173, 219.
Abel, O. 1914 A, 174, fig. 131.
1919 A, 810, fig. 610.
Boule and Thevenin 1920 A, 170.
Loomis, F. B. 1928 B, 535 (B. adventa).
Lull, R. S. 1920 A, 127.
Matthew, W. D. 1908 A, 540, 541, figs. 4, 6.
1909 C, 114.
1924 C, 67, 194, 196.
1926 B, 3.
O'Harra, C. C. 1910 A, 118, fig. 18.
1920 A, 139, 158, fig. 72.
Scott, W. B. 1913 A, 414, fig. 221.
Stromer, E. 1912 A, 201, fig. 186.
Weber and Abel 1928 A, 604, fig. 398.
Lower Miocene (Upper Harrison); Nebraska.

Blastomeryx elegans Matthew and Cook.

Matthew and Cook 1909 A, 410, fig. 23.
Cook, H. J. 1912 D, 45.
Matthew, W. D. 1918 A, 187, 218.
Merriam, J. C. 1917 A, 437.
Sinclair, W. J. 1915 A, 77.
Upper Miocene (Lower Snake Creek); Nebraska.

Blastomeryx gemmifer Cope.

Hay, O. P. 1902 A, 682.
Abel, O. 1913 B, 743, fig. 64.
Boule and Thevenin 1920 A, 170.
Cook, H. J. 1912 D, 43 (This species?).
Douglass, E. 1903 A, 154.
Gidley, J. W. 1903 C, 634.
Hay, O. P. 1924 A, 17.
Lull, R. S. 1920 A, 127.
Matthew, W. D. 1901 B, 358, 442.
1902 F, 319.
1904 A, 103, 124, text-fig. 17.
1907 A, 219.
1908 A, 544, 545.
1909 C, 115.
1924 C, 72, 193.
Merrill, G. P. 1907 A, 32 (Dicrocerus).
Montgomery, T. H. 1904 A, 57.
Palacký, J. 1903 B, 318.
Trouessart, E. L. 1905 A, 712.
Zittel and Schlosser 1911 A, 489, fig. 683.
1923 A, 579, fig. 724.
Upper Miocene (Pawnee Creek); Colorado, Montana: (Lower Snake Creek); Nebraska: Miocene; Texas.

Blastomeryx marshi Lull.

Lull, R. S. 1920 A, 125, fig. 25.
1922 A, 159, figs. 1, 2.
Matthew, W. D. 1924 C, 193, 194.
1926 B, 3 (Dyseomeryx).
Miocene or Early Pliocene; Nebraska.

Blastomeryx medius Matthew.

Matthew, W. D. 1924 C, 67, 194, 195, fig. 57.
Middle Miocene (Sheep Creek); Nebraska.

Blastomeryx mollis Merriam.

Merriam, J. C. 1911 B, 205, 206, 209, 214, 278, figs. 56, 58.
Miocene (Virgin Valley); Nevada.

Blastomeryx olcotti Matthew.

Matthew, W. D. 1908 A, 538, 539, 543, 544, 548, figs. 2, 3, 7, 11.
Boule and Thevenin 1920 A, 170.
Cook, H. J. 1912 D, 43.
Loomis, F. B. 1928 B, 535 (B. orcotti).
Lull, R. S. 1920 A, 127.
Matthew, W. D. 1926 B, 3.
O'Harra, C. C. 1910 A, 118.
1920 A, 158.
Lower Miocene (Upper Rosebud); South Dakota: (Upper Harrison); Nebraska: Lower Miocene; Wyoming.

Blastomeryx primus Matthew.

Matthew, W. D. 1908 A, 537, 540, 543, 544, 548, figs. 1, 5, 10, 11.
Abel, O. 1914 A, 173, fig. 130.
Boule and Thevenin 1920 A, 170.
Loomis, F. B. 1924 B, 3, figs. 2, 3.
1928 B, 535.
Lull, R. S. 1920 A, 127.
Matthew, W. D. 1926 B, 3.
O'Harra, C. C. 1910 A, 118.
1920 A, 158.
Weber and Abel 1928 A, 605, fig. 399.
Lower Miocene (Upper Rosebud); South Dakota.

Blastomeryx riparius Matthew.

Matthew, W. D. 1924 C, 67, 68, 197, fig. 58 (Dyseomeryx); 197 [B. Dyseomeryx)].
Middle Miocene (Sheep Creek); Nebraska.

Blastomeryx scotti Matthew.

Matthew, W. D. 1924 C, 193, 195.
Scott, W. B., in Scott and Osborn 1890 B, 76, figs. 7-9 (B. gemmifer).
Miocene (Valentine?); Nebraska.

Blastomeryx sinclairi (Matthew).

Matthew, W. D. 1918 A, 187, 218, fig. 17 (Cervavus).
1924 C, 68 (Dyseomeryx); 194 (Blastomeryx); 198 [B. (Dyseomeryx)].
Upper Miocene (Snake Creek); Nebraska.

Blastomeryx vigoratus Hay.

Hay, O. P. 1924 A, 16, pl. ii, figs. 13-16 (Blastomeryx); 19 (Dromomeryx, *errore*).
Upper Miocene (Fleming); Texas.

Blastomeryx wellsi Matthew.

Matthew, W. D. 1904 A, 103, 125, fig. 19.
Boule and Thevenin 1920 A, 170.
Cook, H. J. 1912 D, 45 (This species?).
Gidley, J. W. 1904 A, 245.
Hay, O. P. 1924 A, 17.
Lull, R. S. 1920 A, 128.
Matthew, W. D. 1908 A, 545.
1909 C, 113.
1918 A, 187.
1924 C, 67.
Matthew and Cook 1909 A, 410, 411.
Merriam, J. C. 1917 A, 437 (This sp.?).
O'Harra, C. C. 1910 A, 118.
1920 A, 159.
Sinclair, W. J. 1915 A, 77 (This species?).
Trouessart, E. L. 1905 A, 712.
Weber and Abel 1928 A, 606.
Lower Pliocene (Upper Snake Creek); Nebraska.

Blastomeryx sp. indet.

Dumble, E. T. 1915 A, 471. Miocene (Fleming); Texas.
1920 A, 232. Neocene (Fleming); Texas.
Lull, R. S. 1920 A, 129 ("Blastomeryx").
Matthew, W. D. 1901 B, 358, 442.
1909 C, 114. Lower Miocene; Nebraska.
1915 L, 471. Miocene (Fleming); Texas.
1920 E, 232. Neocene (Fleming); Texas.
1923 A, 12 (Cervavus). Lower Pliocene (Upper Snake Creek); Nebraska.
1924 C, 67 (Dyseomeryx). Lower Pliocene (Upper Snake Creek); Nebraska.
Scott and Osborn 1890 B, 76, figs. 7-9.

DROMOMERYX Douglass. Type *Blastomeryx borealis*.

Douglass, E. 1909 A, 457, 461, 477.
Cook, H. J. 1922 B, 13.
Haug, E. 1911 A, 1705.
Loomis, F. B. 1928 B, 539.
Lull, R. S. 1920 A, 90.
Matsumoto, H. 1921 A, 88.
Matthew, W. D. 1915 A, 247, 251.
1918 A, 217.
1924 C, 193, 200.
1926 B, 6.
Merriam, J. C. 1911 B, 208, 215, 221.
1915 E, 233.
1915 F, 256.
1917 A, 437.
1919 A, 451, 452, 455, 524, 527, 532.
Osborn, H. F. 1910 B, 281, 289, 613.
1918 A, 16, 20, 24.
Peterson, O. A. 1912 B, 165.
Schuchert and Levene 1927 A, 337, fig.
Scott, W. B. 1913 A, 235, 417.
Weber and Abel 1928 A, 603, 606.
Zittel and Schlosser 1923 A, 582, 679.

Dromomeryx angustidens Hay.

Hay, O. P. 1924 A, 16, pl. ii, figs. 6, 7 (This genus?).
Upper Miocene (Fleming); Texas.

Dromomeryx antilopinus Scott.

Hay, O. P. 1902 A, 682 (Blastomeryx).
Douglass, E. 1909 A, 457 (Blastomeryx).
Lull, R. S. 1920 A, 95, 128.
Matthew, W. D. 1901 B, 442 (Blastomeryx).
1904 A, 104 (Palæomeryx).
1908 A, 546 (Blastomeryx).
1909 C, 115 (Palæomeryx).
Scott, W. B. 1913 A, 237, fig. 128.
Trouessart, E. L. 1905 A, 692 (Palæomeryx).
Middle Miocene (Deep River); Montana.

Dromomeryx borealis (Cope).

Hay, O. P. 1902 A, 682 (Blastomeryx).
Dall and Harris 1892 A, 282, 288 (Blastomeryx).
Douglass, E. 1901 B, 237 (Palæomeryx); 457 (Blastomeryx).
1903 A, 153, 155, 197 (Palæomeryx).
1908 A, 258 (Palæomeryx?).
1909 A, 457 (Blastomeryx); 477, pls. lix, lxi; pl. lxii, figs. 3, 4; pl. lxiii, figs. 1, 3, 6; text-figs. 1-3 (Dromomeryx).
Gidley, J. W. 1908 B, 241, figs. 8, 9 (Palæomeryx. This species?).
Hay, O. P. 1924 A, 16.
Lull, R. S. 1920 A, 96, 128.
Matthew, W. D. 1904 A, 104, 128, fig. 21 (Palæomeryx).

Matthew, W. D. 1908 A, 546 (Blastomeryx).
1909 C, 115 (Palæomeryx).
1924 C, 72.
Merriam, J. C. 1911 B, 205, 206, 214, 280, figs. 60, 62 (This species?).
Merriam and Sinclair 1907 A, 179 (Blastomeryx); 196 (Palæomeryx).
Osborn, H. F. 1910 B, 296.
Trouessart, E. L. 1905 A, 692 (Palæomeryx).
Upper Miocene (Lower Snake Creek); Nebraska: Miocene (Virgin Valley); Montana, Nevada.

Dromomeryx madisonius Douglass.

Hay, O. P. 1902 A, 682 (Palæomeryx).
Douglass, E. 1909 A, 473, pl. lxii, figs. 5, 6.
Lull, R. S. 1920 A, 104.
Matthew, W. D. 1904 A, 104 (Palæomeryx).
1908 A, 546 (Palæomeryx).
Trouessart, E. L. 1905 A, 692 (Palæomeryx).
Miocene; Montana.

Dromomeryx parvus Cook.

Cook, H. J. 1922 B, 13, 21, 1 fig.
Pliocene (Snake Creek); Nebraska.

Dromomeryx texanus Hay.

Hay, O. P. 1924 A, 15, pl. ii, figs. 8-12.
Upper Miocene (Fleming); Texas.

Dromomeryx whitfordi Sinclair.

Sinclair, W. J. 1915 A, 77, 90, figs. 17, 18.
Cook, H. J. 1922 B, 13.
Mansuy, —— 1923 A, 102 (D. whithordi).
Matthew, W. D. 1918 A, 187, 217.
1924 C, 72, 193.
Merriam, J. C. 1917 A, 437.
Upper Miocene (Lower Snake Creek); Nebraska.

Dromomeryx sp. indet.

Barbour and Cook 1917 B, 180. Pliocene (Valentine); Nebraska.
Buwalda, J. P. 1916 A, 80. Miocene (Mojave Desert); California.
Cook, H. J. 1922 B, 13, 27, 28, 4 figs. (This genus?). Pliocene (Snake Creek); Colorado.
Dumble, E. T. 1920 A, 232 (This genus?). Neocene (Fleming); Texas.
Matthew, W. D. 1915 L, 471, 472 (This genus?). Miocene (Fleming); Texas.
1920 E, 232 (This genus?). Neocene (Fleming); Texas.
Merriam, J. C. 1911 B, 214. Miocene (Virgin Valley); Nevada.
1919 A, 524, figs. 136, 137 (This genus?). Miocene (Barstow); California.

CERVINÆ Baird.

Baird, S. F. 1857 A, 630.
Hay, O. P. 1902 A, 684.
Abel, O. 1913 B, 744.
1920 A, 437.
Arldt, T. 1912 A, 746.
Beddard, F. E. 1902 A, 293.
Brooke, V. 1878 A, 889 (Plesiometacarpalia).
Chomenko, J. 1913 A, 133.
Elliot, D. G. 1901 A, 34.
Gadow, H. 1902 A, 217.
Hay, O. P. 1912 D, 610.
1914 A, 245.
Hay, O. P. 1927 E, 76 ("deer").
Keuchenius, P. E. 1913 A, 449.
Knottnerus-Meyer, T. 1907 A, 15, 97.
Khomenko, J. 1913 A, 132.
Lydekker 1915 D, 8.
Miller, G. S. 1912 B, 385.
Osborn, H. F. 1910 B, 552.
Trouessart, E. L. 1905 A, 694.
Weber, M. 1904 A, 668.
Weber and Abel 1928 A, 569, 576.
Zittel and Schlosser 1911 A, 493.

ODOCOILEUS Rafinesque. Type *O. speleus* Rafinesque = *Cervus virginianus.*

Rafinesque, C. S. 1832 A, I, 109.
Hay, O. P. 1902 A, 684 (Dama).
Allen, J. A. 1892 A (Cariacus).
1902 A, 161 (Dama, Odocoileus).
Beddard, F. E. 1902 A, 295 (Cariacus).
Boule and Thevenin 1920 A, 169 (Cariacus).
Brown, A. E. 1904 B, 83 (Mazama).
Camerano, L. 1916 A, 1, pl. ii, fig. 2; pl. iii, figs. 1, 2.
1916 B, 4, 8, pl. i, fig. 8; pl. ii, figs. 1, 8; pl. iii, figs. 1, 5, 12.
Cameron, A. G. 1910 B, 154 ("new world deer").
Cope, E. D. 1880 U, 158 (Cariacus).
Elliot, D. G. 1901 A, 38.
Fischer, J. B. 1829 A, 449 (Cervus).
Foote, J. S. 1916 A, 103, pl. xi (Cariacus).
Gill, T. 1877 A, 135 (Cariacus).
Grant, M. 1904 B, 201.
Gregory, W. K. 1912 F, 285.
Hay, O. P. 1912 D, 610.
1914 A, 245.
1925 D, 245.
Heilprin, A. 1887 A, 381 (Cariacus).
Hermann, R. 1909 A, 86 (Cariacus).
Holmes, F. S. 1870 A, 17 ("deer").
Kampfen, P. N. 1905 A, 600 (Cariacus).
Knottnerus-Meyer, T. 1907 A, 21, 110, fig.
Leuthardt, F. 1891 A, 127 (Cariacus).
Loomis, F. B. 1925 E, 597, figs. 13. 14
1928 B, 535.
Lull, R. S. 1917 B, 301.
Lydekker, R. 1898 D, xv.
1907 B, 58 (Dorcelephas).
1915 D, 153.
Matthew, W. D. 1904 A, 116.
1908 A, 546, 548, 549, 557, 558, 559.
1915 A, 247.
1915 K, 403.
1917 D, 209.
1918 A, 221.
1926 B, 7.
Merriam, C. H. 1892 A, 61 (Cariacus).
Miller, G. S. 1902 A, 39.
1912 B, 385.
1924 C, 484.
Nitsche, H. 1898 A, 23 (Cariacus).

Osborn, H. F. 1905 I, 110 (Cariacus).
1909 D, 131.
1910 B, 625.
Palacký, J. 1903 B, 317, 329 (Cariacus).
Palmer, T. S. 1904 A, 470, 924.
Paulli, S. 1900 A, 215, fig. 25 (Cervus).
Peterson, O. A. 1912 B, 166.
Pocock, R. I. 1910 A, 97 ("american deer").
1912 A, 774, figs. 110, 112.
Rogers, A. F. 1924 A, 544 ("deer").
Scharff, R. F. 1911 A, 108.
Sclater, P. L. 1902 A, 290 (Cariacus).
Scott, W. B. 1913 A, 202, 208, 413, 686.
Sellards, E. H. 1914 A, 162.
Seton, E. T. 1909 A, 68.
Spencer, J. W. 1898 A, 27 ("deer").
Taschenberg, O. 1899 A, 4515 (Cariacus).
Taylor, W. P. 1916 A, 471.
Thomas, O. 1902 B, 197.
Trouessart, E. L. 1905 A, 703.
Weber, M. 1904 A, 668 (Cariacus).
Weber and Abel 1928 A, 571.
Wright, R. R. 1883 A, 300 (Cariacus).
Zittel and Schlosser 1923 A, 583, 681.

Odocoileus columbianus Richardson.

Richardson, J. 1829, Fauna bor.-Amer. I, 257 (Cervus macrotis var. columbiana).
Elliot, D. G. 1901 A, 41.
Furlong, E. L. 1927 A, 148-175, text-figs. 1-15, 19-28.
Hay, O. P. 1927 D, 108.
Lydekker, R. 1915 D, 182.
Miller, G. S. 1912 B, 387.
1924 C, 484.
Sinclair, W. J. 1903 A, 711 (This species?).
1904 A, 17 (This species?).
Recent; from Alaska to southern California and Arizona: Pleistocene; California.

Odocoileus dolichopsis (Cope).

Hay, O. P. 1902 A, 684 (Dama).
1912 D, 615, pl. vi, figs. 2-2*b*.
1923 A, 492.
Trouessart, E. L. 1905 A, 704.
Pleistocene; Indiana.

Odocoileus ensifer (Cope).

Hay, O. P. 1902 A, 684 (Dama).
1927 D, 109 (Cariacus); 251 (Odocoileus).
McCornack, E. C. 1920 A, 16 ("virginia deer").
Matthew, W. D. 1902 F, 321 (Cariacus).
Stock, C. 1925 A, 199.
Pleistocene; Washington State.

Odocoileus hemionus (Rafinesque).

Rafinesque, C. S. 1817, Amer. Monthly Mag., I, 436 (Cervus).
Brown, B. 1908 A, 205.
Cuvier, G. 1925 A, 43, pl. v, fig. 35 (Cervus auritus).
Elliot, D. G. 1901 A, 42.
Freudenberg, W. 1921 A, 139 (Cervus).
1922 A, 5 (Cervus).
Haug, E. 1911 A, 1887.
Hay, O. P. 1914 A, 32.
1924 D, 170, 251.
Lydekker, R. 1907 B, 58 (Dorcelaphus).
Lydekker, R. 1915 D, 176.
Matschie, P. 1899 A, 130, 132 ("grossohrhirsche").
Miller, G. S. 1924 C, 485.
Osborn, H. F. 1910 B, 488.
Peterson, O. A. 1926 A, 257.
Pocock, R. I. 1912 A, 783.
Scharff, R. F. 1911 A, 107.
Scott, W. B. 1913 A, 167, fig. 83.
Seton, E. T. 1909 A, 114, pl. vi; text-figs. 15, 16, 37-55, map 6.
Trouessart, E. L. 1905 A, 704.
Recent; western North America: Pleistocene; Pennsylvania?, Arkansas, Mexico.

Odocoileus lævicornis (Cope).

Hay, O. P. 1902 A, 684 (Dama).
Baker, F. C. 1920 A, 213, 208, 395.
Hay, O. P. 1923 A, 312, 316.
Peterson, O. A. 1926 A, 257.
Rhoads, S. N. 1903 A, 242.
Schlosser, M. 1899 M, 362 (Cariacus).
1902 H, 143 (Cariacus).
Pleistocene (Port Kennedy); Pennsylvania.

Odocoileus osceola (Bangs).

Bangs, O. 1896 B, 26 (Cariacus).
Allen, J. A. 1901 E, 451, fig. 1 (O. virginianus osceola).
Baker, F. C. 1920 A, 374.
Barbour and Allen 1922 A, 71 (O. virginianus osceola).
Elliot, D. G. 1901 A, 40 (O. americanus osceola).
Hay, O. P. 1916 C, 43, pl. viii, figs. 3-5.
1917 A, 72.
1917 E, 45, 50 (This species?).
1918 B, 4.
1923 A, 492
Hrdlička, A. 1918 A, 26.
Miller, G. S. 1912 B, 389.
1925 C. 487.
Scott, W. B. 1913 A, 179, fig. 100 (O. virginianus osceola).
Sellards, E. H. 1916 C, 130 (O. osceola); 139, 158 (O. sp.); 149, pl. xxv, fig. 3; pl. xxvii, figs. 1, 2 ("Odocoileus").
Simpson, G. G. 1928 H, 2.
Trouessart, E. L. 1905 A, 704.
Walker, S. F. 1883 A, 428 ("deer").
Recent; Florida: Pleistocene (Early); Florida.

Odocoileus sellardsiæ Hay.

Hay, O. P. 1917 E, 45, 50, pl. iii, fig. 4.
1918 D, 461 ("deer").
1923 A, 492.
1927 D, 273.
Loomis, F. B. 1924 C, 503, 506 (O. sellardsi).
Sellards, E. H. 1916 C, 130, 139, 158 (O. osceola, in part).
1916 F, 9 (O. sp.).
1917 D, 142 ("deer").
Pleistocene; Florida.

Odocoileus virginianus (Zimmermann).

Hay, O. P. 1902 A, 684 (Dama).
Agassiz, L. 1859 B, 186 ("deer").
Allen, J. A. 1905 A, 666 ("virginia deer").

Baker, F. C. 1920 A, 465.
Bangs, O. 1896 B, 25 (Cariacus americanus).
Barbour and Allen 1922 A, 65.
Black, D. 1915 A, 348, fig. 12 (Cervus).
Bolton, H. C. 1888 A, 123 ("deer").
Brown, A. E. 1904 B, 83 (Mazama).
Brown, B. 1908 A, 205.
Calvin, J. D. 1911 A, 211 ("deer").
Carman, J. E. 1917 A, 409 (This species?).
Caton, J. D. 1877 A, figures.
Claypole, E. W. 1897 C, 53 ("deer").
Coleman, A. P. 1913 B, 18, 29 ("deer." This species?).
Conrad, T. A. 1835 A, 108 ("deer").
    1838 A, x ("deer").
Cope, E. D. 1867 F, 138 ("deer").
    1895 G, 596 (Cervus).
Cuvier, G. 1825 A, IV, 33, pl. v (Cervus).
Edwards, J. J. 1902 A, 248 (Cervus. Fossil?).
Elliot, D. G. 1901 A, 39, pl. xv (O. americanus).
Elrod and Benedict 1892 A, 241.
Fischer, J. B. 1829 A, 449 (Cervus).
Foster, J. W. 1869 A, 254 (Cervus).
Frech, F. 1907 A, 315.
Frech and Geinitz 1903 A, 36 (Cervus).
Gidley, J. W. 1903 B, 474.
Giebel, C. G. 1883 A, 139 (Cervus).
Grant, M. 1904 B, 201.
Hahn, W. L. 1909 A, 457.
Hall, J. 1843 A, 364, 366, 367 ("deer").
Haug, E. 1911 A, 1886, 1887.
Hay, O. P. 1912 D, 611, pl. vi, fig. 1; text-fig. 44.
    1914 A, 32, 38, 246, 251, pl. xxxi, fig. 5; text-fig. 89.
    1917 E, 51.
    1918 B, 18.
    1920 B, 90, 103, 104, 124.
    1923 A, 492.
    1924 D, 381.
    1927 D, 310.
    1928 C, 428.
Higley, W. K. 1891 A, xiv ("deer").
Hildreth, S. P. 1835 A, 148 ("deer." This species?).
Hilgard, E. W. 1872 A, 14 ("deer." This species?).
Holland, W. J. 1908 A, 231 (Cariacus).
    1912 B, 750 (Cariacus).
Holmes, F. S. 1859 A, 184 ("deer").
Holmes, W. H. 1903 A, 244 ("deer").
Hrdlička, A. 1903 A, 359, 367, 376, fig. 36 ("virginia deer").
Ingebrigtsen, O. 1924 A, 112.
Knottnerus-Meyer, T. 1907 A, 22.
Leidy, J. 1889 H, 19 (Cervus).
Leverett, F. 1889 A, 189 ("deer").
    1897 A, 76, 77 ("deer").
Lull, R. S. 1920 A, 129 (O. americana).
Lydekker, R. 1907 B, 58 (Dorcelaphus).
    1915 D, 155, fig. 29.
Manigault, G. E. 1887 A, 130 ("deer").
Matschie, P. 1899 A, 130 ("virginier-hirsch").
Matson and Clapp 1909 A, 136 (Cervus).
Mercer, H. C. 1894 A, 98 ("deer").
Merriam, J. C. 1912 C, 221 (Cervus).
Miller, B. L. 1912 A, 5 (Cariacus).
Miller, G. S. 1902 A, 39 (O. americanus).
    1912 B, 386 (O. americanus).
    1924 C, 488.
Miller and Stephenson 1912 A, 50, 55 ("deer").
Nitsche, H. 1898 A, 21, pl. v, figs. 1-3 (Cariacus).
Osborn, H. F. 1910 B, 348, 368 ("Odocoileus"); 438 ("white-tailed deer"); 477, 478, 488 (O. virginianus).
Owen, D. D. 1856 A, 8 ("deer").
Palacký, J. 1903 B, 329 (Cariacus).
Peterson, O. A. 1926 A, 257.
Rafinesque, C. S. 1832 A, 109 (O. speleus).
Rhoads, S. N. 1903 A, 241 (O. americanus).
Scharff, R. F. 1911 A, 396.
Schmidt, E. 1872 A, 251 (Cervus).
Sclater, P. L. 1902 A, 290 (Cervus).
Scott, W. B. 1913 A, 166, 412, fig. 81.
Sellards, E. H. 1915 D, 77, 80, 81 (O. virginianus?).
Seton, E. T. 1906 E, 321-341, figs. (O. americanus).
    1909 A, 68, pl. v, text-figs. 15-37, map 5.
Shimek, B. 1902 A, 285 (Cervus).
Smallwood, W. M. 1903 A, 26 ("virginia deer").
Smith, B. 1914 B, 65 (O. americanus).
Spencer, J. W. 1895 A, 137 (Cervus).
Stephenson, L. W. 1912 B, 268 ("deer").
Sternberg, C. S. 1903 A, 512 ("deer").
Taschenberg, O. 1899 A, 4515 (Cariacus).
Thomas, O. 1911 A, 585.
Trouessart, E. L. 1905 A, 704.
Volk, E. 1911 A, 83 ("deer").
Worthen, A. H. 1873 A, 308 ("deer").
    1890 A, 23 ("deer").
Wright, R. R. 1883 A, 301 (Cariacus).
Wyman, J. 1846 B, 391 ("deer").

Recent; eastern North America, west to the Great Plains: Pleistocene; New York, New Jersey, Pennsylvania, Ohio, Michigan, Indiana, Illinois, Wisconsin, Maryland, Virginia, North Carolina, South Carolina, Florida, Mississippi, Tennessee, Kentucky, Louisiana, Texas?, Oklahoma, Missouri, Kansas, Iowa.

Odocoileus whitneyi (Allen).

Hay, O. P. 1902 A, 684 (Dama).
Baker, F. C. 1920 A, 354, 359, 395.
Freudenberg, W. 1910 A, 23 (O. withneyi).
Hay, O. P. 1914 A, 38, 250.
    1923 A, 230.
    1924 D, 172.
Trouessart, E. L. 1905 A, 704.

Pleistocene; Illinois, Iowa, Wisconsin.

Odocoileus sp. indet.

Abel, O. 1926 B, 238. Pleistocene (La Brea); California.
Barbour and Cook 1917 B, 180. Pliocene (Valentine); Nebraska.
Bryan, K. 1923 A, 31. Pleistocene; Arizona.
Cook, H. J. 1912 D, 45. Pleistocene (Equus beds); Nebraska.
    1926 D, 335 (This genus?). Pleistocene; Colorado, Texas.
Cope, E. D. 1867 F, 138 ("deer"). Pleistocene; Maryland.

Dall and Harris 1892 A, 79 (“deer”).

Diller, J. S. 1911 A, 27. Pleistocene; California.

Eaton, G. F. 1923 A, 237, fig. 9. Pleistocene; Mexico.

Frick, C. 1921 A, 296, figs. 5-12, 14 (This genus?); Pleistocene (Bautista); California: 322, figs. 33, 34 (“cervid,” This genus?): Pliocene (San Timoteo); California: 378, figs. 95, 96 (“cervid,” This genus?): Pliocene (Eden); California.

Furlong, E. L. 1904 A, 54, 55. Pleistocene; California.

1906 A, 243, 245. Pleistocene; California.

Gidley, J. W. 1913, in Matson and Sanford 1913 A, 143 (Cervus sp.).

1920 B, 283 (“deer”). Pleistocene (Middle); Maryland.

1923 B, 31. Pleistocene; Arizona.

1923 D, 75. Pleistocene (Gila conglomerate); Arizona.

1927 E, 274. Pleistocene; Florida.

Harkness, H. W. 1882 A, 5 (“deer”). Pleistocene; Nevada.

Hay, O. P. 1916 E, 53. Pleistocene; Florida.

1919 C, 106. Pleistocene.

1921 A, 610. Pleistocene; Washington.

1924 D, 381. Pleistocene; Iowa, Missouri, Oklahoma, Texas.

1926 C, 2. Pleistocene (Early); Texas.

1927 D, 301, 304, 310. Pleistocene; Arizona, Illinois, Michigan, California, Iowa, Nevada, Texas, Washington.

Holmes, F. S. 1860 A, iii, vi, vii (“deer”). Pleistocene; South Carolina.

Holmes, W. H. 1925 A, 257 (“deer”). Pleistocene; Florida.

Le Conte, J. 1882 B, 9 (“deer”). Pleistocene (Carson); Nevada.

Lull, R. S. 1921 B, 163. Pleistocene; Texas.

McCornack, E. C. 1920 A, 23. Pleistocene (caves); California.

Marcy, O. 1920, in Baker, F. C. 1920 A, 4 (“deer”). Pleistocene (Late Wisconsin); Illinois.

Merriam, J. C. 1915 E, 229, figs. 46-48 (Cervus or Odocoileus). Pleistocene? (Etchegoin); California.

1917 A, 425 (This genus?). Pleistocene (Etchegoin); California: 439. Pleistocene? (Alachua); Florida.

Merriam and Stock 1925 A, 10, 11. Pleistocene (Potter Creek); California.

Miller, L. H. 1912 A, 70, 73.

Osborn, H. F. 1925 D, 531. Pleistocene (La Brea); California.

Rhoads, S. N. 1903 A, 241. Pleistocene (Port Kennedy); Pennsylvania.

Ross, C. P. 1923 A, 75. Pleistocene (Gila conglomerate); Arizona.

Sellards, E. H. 1916 B, 103. Pleistocene; Florida.

1916 D, 616. Pleistocene; Florida.

1916 E, 16, 17. Pleistocene; Florida.

Shuler, E. W. 1923 A, 333 (“deer”).

Stock, C. 1925 A, 30, 113, 119. Pleistocene (La Brea, Upper San Pedro, Bautista and Caves); California.

1927 A, 156. Pleistocene; California.

Tuomey, M. 1848 A, 177, 180 (“Cervus”). Pleistocene; South Carolina.

Whitney, J. D. 1879 A, 250 (“Cervus”). Pleistocene; California.

Blastocerus Wagner. Type not determined.

Wagner, J. A. 1844, Suppl. Schreber's Säugethiere, iv, 366-373, tabs. ccxlviii, ccli.

Gray, J. E. 1850, Proc. Zool. Soc. Lond., 237.

Palmer, T. S. 1904 A, 138.

Zittel and Schlosser 1911 A, 494 (Blastoceras).

1923 A, 583.

Blastocerus extraneus Simpson.

Simpson, G. G. 1928 H, 2, 14, fig. 10. Pleistocene (Early); Florida.

Rangifer H. Smith. Type *Cervus tarandus* Linnæus.

Hay, O. P. 1902 A, 686.

Allen, J. A. 1892 A.

1900 B, 1.

1903 A.

Arldt, T. 1907 D, 317-319.

Baker, F. C. 1920 A, 265, 283, 395.

Beddard, F. E. 1902 A, 298.

Behlen, H. 1906 A, 190 (Tarandus).

Boule, M. 1923 A, 500 (“reindeer”).

Brandt and Woldrich 1887 A, 106.

Brown, A. E. 1904 B, 77.

Camerano, L. 1916 B, 1, pl. i, figs. 1-7, 10; pl. ii, figs. 1, 2.

Cameron, A. G. 1910 B, 154, 215.

Conwentz 1900 A, 432 (“rentiere”).

Cuvier, G. 1825 A, iv, 57-64, pls. iv, v.

Depéret, C. 1912 A, 709 (“renne”).

Eichwald, E. 1835 A, 692 (Cervus tarandus).

Elliot, D. G. 1901 A, 35.

Foote, J. S. 1916 A, 106, pl. xi.

Foster, J. W. 1873 A, 88 (Cervus).

Frech, F. 1906 A, 479 (“renntiere”).

1907 A, 315 (“ren”).

Gaudry, A. 1875 D, 1282 (“rennes”).

Geike, J. 1914 A, 326 (“reindeer”).

Gervais, P. 1852 A, 81 (Cervus).

1859 A, 144 (“tarandus”).

Gidley, J. W. 1912 C, 20.

1913 D, 2.

Giebel, C. G. 1883 A (“renn”).

Grant, M. 1903 A, 175.

1904 B, 200.

Hasse and Schwarck 1870 A, 132, figs. 43-45 (Cervus).

Hay, O. P. 1900 G, 893.

1910 D, 372.

1912 D, 630.

1914 A, 273.

1928 B, 237.

Heilprin, A. 1887 A, 381, 382.

Hollister, N. 1912 A, 3.

Hrdlička, A. 1903 A, 375.

Hrdlička, A. 1920 A, 463.
Hue, E. 1907 A, pls. lvii, lviii, lxii, lxxviii, lxxxviii, ciii, cxvii, cxli, cliv, clix, clxviii, clxxxi, clxxxii.
Hull, E. 1914 A, 612 ("reindeer").
Jacobi, A. 1921 A, 209.
Kampfen, P. N. 1905 A, 601, fig. 73.
Knottnerus-Meyer, T. 1907 A, 24, 98, 111, pl. ii, fig. 12.
LeDamany, P. 1906 B, 164 ("rennes").
Leunis and Ludwig 1883 A, 260.
Lönnberg, E. 1909 B, 1.
Loomis, F. B. 1925 E, 597, figs. 13, 14.
1928 B, 534.
Lull, R. S. 1904 C, 8.
Lydekker, R. 1903 A, 360.
1907 B, 51.
1915 D, 238.
Major, C. J. F. 1880 A, 22 (Tarandus).
Matschie, P. 1896 A, 250, 252 ("rentier").
1899 A, 132.
1901 A, 308, 315.
Matthew, W. D. 1908 A, 546, 549, 557.
1915 A, 245, 247.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1912 A, 979.
1912 B, 391.
1924 C, 491.
Moreau, L. J. 1900 A, 115 ("renne").
Nehring, A. 1880 A (Cervus).
Nitsche, H. 1898 A, 38.
Osborn, H. F. 1909 D, 86, 87.
1910 B, 629.
1912 A, 94.
1912 B, 261, fig. 4.
1912 G, 251.
1912 L, 187, fig. 4.
1916 B, 543, 544.
1926 C, 340.
Owen, R. 1866 B, 464, 468 ("reindeer").
1868 A, 871 (Cervus).
Palmer, T. S. 1904 A, 601, 925.
Pander and Alton 1823 A, 7, pl. iv (Cervus).
Pocock, R. I. 1910 A, 97 ("reindeer").
1910 B, 199 ("reindeer").
1912 A, 774.
Rhumbler, L. 1913 A, 584.
Römer, F. 1907 A, 66 ("rentier").
Rörig, A. 1901 A, 56.
Scharff, R. F. 1895 A, 454.
1907 A, 110, 124 ("reindeer").
1911 A, 3, 35, 80, 154, 155.
Scott, W. B. 1913 A, 208, 689.
1917 A, 132 ("caribou").
Seton, E. T. 1906 C, 426-443, figs. ("caribou").
1909 A, 187, pls. x-xii; text-figs. 80-92, map 8.
Stejneger, L. 1901 B, 112.
Taschenberg, O. 1899 A, 4667.
Toldt, C. 1905 A, 331 ("renntier").
Trouessart, E. L. 1905 A, 700.
1906 A, 66.
Van Bemmelen, J. F. 1918 A, 571 ("reindeer").
Weber, M. 1904 A, 669.
Williston, S. W. 1910 G, 595 ("caribou").
Winge, H. 1906 A, 113.
Wright, G. F. 1911 B, 675 ("caribou").
Wright, R. R. 1883 A, 305.
Zittel and Schlosser 1911 A, 494.
1923 A, 583, 681.

Rangifer arcticus Richardson.

Richardson, J. 1829, Fauna Bor.-Amer., I, 241 (*Cervus tarandus var. articus*).
Allen, G. M. 1914 A, 103, figs. 1-3 (R. *a. caboti*).
Bell, R. 1898 A, 374 ("reindeer")..
Gervais, P. 1859 A, 365 (Cervus tarandus).
Gilmore, C. W. 1908 A, 36 (R. arcticos?).
Grant, M. 1903 A, 176, 190, figs.
Hay, O. P. 1914 A, 273, text-fig. 94.
Lönnberg, E. 1909 B, 10.
Miller, G. S. 1912 B, 391.
1924 C, 491.
Quackenbush, L. S. 1909 A, 36, 127.
Richardson, J. 1854 A, 98 ("reindeer." This species?).

Recent and Pleistocene; Alaska, Yukon, Mackenzie.

Rangifer caribou (Gmelin).

Gmelin. J. F. 1788, Syst. Nat., I, 177 (Cervus).
Hay, O. P. 1902 A, 686.
Abbott, C. C. 1881 A, 484.
Allen, J. A. 1900 B, 9.
Baker, F. C. 1920 A, 470.
Brown, A. E. 1904 B, 86.
Caton, J. D. 1877 A, figs.
Coleman, A. P. 1899 A, 195 ("caribou").
1901 A, 298 ("caribou").
1904 A, 353, 366 ("caribou").
1913 B, 18 ("caribou." This species?).
Cuvier, G. 1825 A, IV, 63, pl. iv ("caribou").
Dall, W. H. 1896 A, 854.
Dall and Harris 1892 A, 264.
Dawson, J. W. 1894 D, 4.
Dietrich, W. O. 1910 A, 335.
Elliot, D. G. 1901 A, 35, pl. xiii.
Frech and Geinitz 1903 A, 36 (R. caribu).
Goddard, P. E. 1927 A, 68 ("caribou").
Grant, M. 1903 A, 176, 190, figs.
Hartnagel and Bishop 1921 A, 90 (R. arcticus. This species?).
Haug, E. 1911 A, 1873.
Hay, O. P. 1912 D, 630.
1923 A, 494.
1927 D, 282.
Hull, E. 1908 A, 154 ("woodland caribou").
Hussakof, L. 1916 B, 689 (This species?).
Lambe, L. M. 1912 B, 349.
Lewis, H. C. 1881 A, 544 ("reindeer").
1883 B, 366, 374 ("reindeer").
Lobley, J. L. 1908 A, 195.
Lönnberg, E. 1909 B, 10 ("barren ground caribou").
Loomis and Young 1912 A, 25.
Lydekker, R. 1915 D, 246, fig. 42 (R. tarandus caribou).
Mercer, H. C. 1894 A, 98.
1894 C ("reindeer").
Miller, G. S. 1912 B, 392.
1924 C, 491.
Mitchell, S. L. 1826 A, 26 ("reindeer").
Norton, A. H. 1924 A, 132 ("caribou")

Obalski, T. 1904 A, 216 ("renne").
Osborn, H. F. 1910 B, 440, 489.
Perkins, G. H. 1910 B, 7.
Putnam, F. W. 1884 B, 372 ("antler").
Rhoads, S. N. 1903 A, 241.
Scharff, A. F. 1911 A, 3, 4.
Scott, W. B. 1913 A, 157, 208, 412, fig. 57.
Shaler, N. S. 1877 A, 197 ("caribou").
Trouessart, E. L. 1905 A, 701.
Wilson, T. 1901 A, 333 (Cervus tarandus. This species?).
Woodworth, J. B. 1905 A, 187 ("reindeer").
Wright, G. F. 1911 A, 282 ("caribou").
1911 C, 42 ("caribou").
Recent; Eastern Canada: Pleistocene; Connecticut, Vermont, New York, New Jersey, Pennsylvania, Ontario, Kentucky.

Rangifer grœnlandicus Gmelin.

Gmelin, J. F. 1788, Syst. Nat., I, 177.
Allen, J. A. 1900 B, 9, figs. 1, 10, 13, 14.
Fielden, H. W. 1877 A, 488 (Cervus tarandus).
Fielden and Derance 1878 A, 566 (Cervus tarandus).
Grant, M. 1903 A, 176, 185, figs.
Hay, O. P. 1909 G, 893 (R. tarandus. This species?).
1912 D, 631, text-fig. 48.
1923 A, 246 (R. grœnlandicus, R. tarandus).
Lambe, L. M. 1912 B, 349 (This species?).
Lydekker, R. 1915 D, 256 (R. tarandus grœnlandicus).
Miller, G. S. 1924 C, 492.
Rhoads, S. N. 1903 A, 241.
Trouessart, E. L. 1905 A, 701.
Recent; Greenland: Pleistocene?; Grinnell Land or northern Greenland.

Rangifer muscatinensis Leidy.

Leidy, J. 1879 A, 32.
Hay, O. P. 1902 A, 686 (R. caribou, part).
Baker, F. C. 1920 A, 470.
Calvin, S. 1897 A, 19 ("reindeer").
Hay, O. P. 1914 A, 34, 278, pl. xxxii, figs. 4, 5; pl. xxxiii, figs. 1-4.
1918 B, 20.
1920 B, 113 (This species?).
1923 A, 247, 339.
1928 C, 429.
Keyes, C. R. 1889 A, 121 (Cervus).
Leighton, M. M. 1921 A, 513 (This species?).
Leverett, F. 1899 A, 166 ("deer").
McGee, W J 1887 A, 218 (R. caribou, Cervus muscatinensis).
1891 A, 471 (R. caribou, Cervus muscatinensis).
Tilton, J. L. 1915 A, 236.
dden, J. A. 1899 A, 360 ("caribou").
1901 B, 110 ("deer").
Winchell, N. H. 1907 A, 151 ("reindeer").
Witter, F. M. 1880 A, 16 (R. caribou).
1890 A, 45 (R. caribou).
1892 A, 67 ("reindeer").
1892 B, 276 ("reindeer").
Pleistocene; Iowa, Illinois?

Rangifer sp. indet.

Ferguson, H. G. 1917 A, 182. Pleistocene; Nevada (This genus?).
Gidley, J. W. 1917 C, 182. Pleistocene; Nevada (This genus?).
1924 A, 69 (This genus?). Pleistocene (early); Nevada.
Hay, O. P. 1927 D, 311 (This genus?). Pleistocene; Nevada, Utah.
King, C. 1878 A, 494 ("reindeer"). Pleistocene (Lake Bonneville); Utah.
Koch, A. 1840 A, 3 ("antediluvian reindeer" This genus?). Pleistocene; Missouri.
Tilton, J. L. 1910 A, 950. Pleistocene; Iowa.

CERVALCES Scott. Type *Cervus americanus* Harlan = *Cervalces scotti* Lydekker.

Hay, O. P. 1902 A, 685.
Baker, F. C. 1920 A, 195, 333.
Brown, A. E. 1904 B, 88.
Calvin, S. 1909 A, 137.
Dietrich, W. D. 1910 A, 326 (Alces latifrons).
Frech and Geinitz 1903 A, 36.
Gidley, J. W. 1913 D, 2 ("cervalces").
Grant, M. 1904 A, 387.
Hay, O. P. 1912 D, 623.
1914 A, 261.
1918 B, 10.
1919 A, 311.
1919 B, 379.
1923 A, 481.
Heilprin, A. 1887 A, 382.
Holland, W. J. 1912 B, 750.
Matthew, W. D. 1915 K, 410.
Osborn, H. F. 1910 B, 449, 471, 492, 493, 553.
Palmer, T. S. 1904 A, 172, 922.
Reichenau, W. 1900 A, 56 (Alces latifrons).
Scharff, R. F. 1911 A, 32.
Scott, W. B. 1913 A, 208, 413.
Stremme, H. 1911 A, 89.
Trouessart, E. L. 1905 A, 700.
Zittel and Schlosser 1923 A, 583, 680, 681.

Cervalces borealis Bensley.

Bensley, B. A. 1913 A, 1, fig.
Baker, F. C. 1920 A, 456.
Coleman, A. P. 1913 A, 72.
1913 B, 29.
1914 A, 448 ("Cervalces").
Hartnagel and Bishop 1921 A, 68.
Hay, O. P. 1914 A, 263, 269.
1923 A, 226.
Pleistocene (Middle); Toronto, Ontario.

Cervalces roosevelti Hay.

Hay, O. P. 1913 A, 5, text-fig. 1.
Baker, F. C. 1920 A, 259, 283, 395.
Bensley, B. A. 1913 A, 1.
Calvin, S. 1909 A, 137 (Cervalces? This species?).
1909 B, 350, pl. xxii, fig. 3 (C. scotti. This species?).
Hay, O. P. 1914 A, 34, 267, pl. xxxii, figs. 1, 2.

Hay, O. P. 1920 B, 111, 124, pl. vi, figs. 1, 2, 5-8 (This species?).
1923 A, 338, 339.
1928 C, 429.
Leighton, M. M. 1921 A, 513.
Shimek, B. 1909 A, 405 ("Cervalces." This species?).
1910 A, 138 ("Cervalces." This species?).
1911 A, 316 ("Cervalces." This species?).
Pleistocene; Iowa, Illinois?

Cervalces scotti Lydekker.

Lydekker, R. 1898 A, 60, fig. 14 (Alces).
Hay, O. P. 1902 A, 685 (C. americanus).
Abel, O. 1914 A, 177 (C. americanus).
Baker, F. C. 1920 A, 456.
Bensley, B. A. 1913 A, 2.
Cameron, A. G. 1919 B, 215 (Cervalces).
Cooper, Smith and Dekay 1831 A, 371 ("Cervus").
Foster, J. W. 1873 A, 88 (Cervus americanus).
Godman, J. D. 1860 A, ii, 265 ("Wistar's fossil elk").
Haug, E. 1911 A, 1887 (C. americanus).
Hay, O. P. 1910 D, 371 (C. americanus).
1912 B, 13.
1912 D, 623, pl. vii; text-fig. 46.
1914 A, 231, text-figs. 91, 92.
1923 A, 481.
Lucas, F. A. 1902 B, 247 ("Cervalces").
Osborn, H. F. 1904 F, 20, 46, fig. 6 (C. americanus).
1910 B, 449, 492, 493, fig. 217 ("Cervalces").
1920 A, 244, fig. ("Cervalces").
Palacký, J. 1903 B, 326 (C. americanus).
Peterson, O. A. 1917 A, 473, fig. 6 ("Cervalces?").
1926 A, 257 (C. americanus).
Rhoads, S. N. 1903 A, 240.
Rörig, A. 1901 A, 66 (C. americanus).
Schuchert, C. 1915 A, 958.
Schuchert and Levene 1927 A, 339 ("stag-moose").
Scott, W. B. 1913 A, 195 (fig. 113); 208, 209 (fig. 117).
Trouessart, E. L. 1905 A, 700 (C. americanus).
Veatch, A. C. 1906 A, 51 ("large elk." This species?).
Williston, S. W. 1897 I, 303, pl. xlvii (C. americanus. This species?).
Pleistocene (Late); Kentucky, New Jersey.

Cervalces sp. indet.

Hay, O. P. 1923 A, 481. Pleistocene; Illinois, Pennsylvania.
1924 D, 262. Pleistocene; Missouri, Virginia.

Alces Gray. Type *Cervus alces* Linnæus.

Gray, J. E. 1821 A, 307.
Hay, O. P. 1902 A, 685.
Abel, O. 1910 B (186), ("elch").
1912 F, 238, fig. 169 (Alces).
Aichel, O. 1917 A, 106, figs. 5, 6 (Cervus).
Allen, J. A. 1892 A.
1902 A, 159 (Paralces).
1903 A (Paralces).
Beddard, F. E. 1902 A, 297.
Behlen, H. 1906 A, 190.
Beyer, H. 1908 A, 81 ("elch").
Boas, J. E. V. 1884 B, 395.
Bojanus, L. H. 1824 A, 272, pl. xxii, figs. 47-49.
Botezat, E. 1904 A, 594 (Cervus).
Brauer, A. 1914 A, 282.
Brown, A. E. 1904 B, 87.
Cameron, A. G. 1910 B, 154, 215.
Caton, J. D. 1877 A.
Dawkins, W. B. 1887 A, 1, pl. i.
Diener, C. 1912 A, 218.
Dietrich, W. O. 1910 A, 318 (Alce).
Elliot, D. G. 1901 A, 37.
Elwes, H. J. 1903 A, 133, figs. 18-26.
Fischer, J. B. 1829 A, 441 (Cervus).
Foote, J. S. 1916 A, 105, pl. xi.
Frech, F. 1906 A, 484.
Geikie, J. 1914 A, 321 ("elk").
Gervais, P. 1852 A, 80 (Cervus).
1859 A, 143 (Alce).
Gidley, J. W. 1912 C, 19.
1913 D, 2 ("moose").
Grant, M. 1904 B, 200.
Hay, O. P. 1912 D, 627.
1914 A, 269.
1915 A, 245, 247.
1918 B, 10.
Heilprin, A. 1887 A, 381.
Hrdlička, A. 1920 A, 463.
Hue, E. 1907 A, pls. lvi, lxii, lxxxvii, cii, cxvi, cxxix, cxl, cliii, clxvii, clxxx.
Ingebrigtsen, O. 1924 A, 96.
Jacobi, A. 1921 A, 209, 218 (Alce).
Knottnerus-Meyer, T. 1907 A, 23, 98, 111, fig. (Alce).
Le Damany, P. 1906 B, 163 ("elan").
Leunis and Ludwig 1883 A, 259.
Leuthardt, F. 1891 A, 126 (Cervus).
Lönnberg, E. 1903 A, 352.
Loomis, F. B. 1905 B, 842 ("moose").
1925 E, 597, 599, figs. 13, 14.
1928 B, 534, fig. 4.
Lydekker, R. 1907 B, 51.
1910 E, 352 ("elk").
1915 D, 228, fig. 35.
Major, C. J. F. 1880 A, 22.
Matschie, P. 1899 A, 132.
1901 A, 315.
Matthew, W. D. 1908 A, 546, 549, 557.
Merriam, C. H. 1892 A, 62 (Alce).
Miller, G. S. 1912 A, 976.
1912 B, 391.
1924 C, 490.
Moreau, L. J. 1900 A, 115 ("elan").
Nehring, A. 1880 A (Cervus).
Newton, E. T. 1891 A, 33.
Nitsche, H. 1898 A, 89.
Osborn, H. F. 1905 I, 110.
1909 D, 86, 87, 89.
1910 B, 438, 440, 449, 466, 605.
1912 A, 94.
1912 G, 251.
1916 B, 535.

Osborn, H. F. 1926 C, 340.
Owen, R. 1845 B, 533, pl. cxxxiv, fig. 6.
1868 A, 759.
Palacký, J. 1903 B, 327, 328.
Pavlow, M. 1906 B, 7.
Pocock, R. I. 1910 A, 97 ("elk").
1910 B, 199 ("moose").
1912 A, 774 (Alce).
Pusch, G. G. 1840 A, 69, 78 (Cervus, Alces).
Reichenau, W. 1900 A, 56 (A. latifrons = Cervalces?).
Rörig, A. 1901 A, 56.
Rosenberg, A. 1873 A, 123 ("elen").
Scharff, R. F. 1911 A, 32, 80.
Scott, W. B. 1913 A, 208, 675 (Alce).
1917 A, 132 ("moose").
Seton, E. T. 1909 A, 144.
Taschenberg, O. 1899 A, 4459.
Thomas, O. 1902 B, 197.
Trouessart, E. L. 1905 A, 700 (Alce).
Upham, W. 1902 A, 149 ("moose").
1903 C, 22679 ("moose").
Wallace, A. R. 1876 A, II, 219.
Weber, M. 1904 A, 669.
Weber and Abel 1928 A, 570, 577.
Winge, H. 1906 A, 112.
Wright, R. R. 1883 A, 296.
Wüst, E. 1901 A, 304 [Cervus (Alces)].
Zittel and Schlosser 1911 A, 494.
1923 A, 583.

Many, perhaps most, writers have used *Alces* as a masculine noun.

Alces americana (Clinton).

Clinton, DeWitt 1822 (*Cervus americanus*). (See Miller, G. S. 1924 C, 490.)
Hay, O. P. 1902 A, 685.
Baker, F. C. 1920 A, 453.
Brandt and Woldrich 1887 A, 106 (Cervus alces).
Caton, J. D. 1877 A, fig.
Cuvier, G. 1825 A, IV, 64, pl. vi (Cervus alces).
Dall, W. H. 1896 A, 854.
Dall and Harris 1892 A, 264.
Dawson, J. W. 1894 D, 4.
Elliot, D. G. 1901 A, 38, pl. xiv.
Fischer, J. B. 1829 A, 441 (Cervus alces).
Foote, J. S. 1921 A, 10, pl. iii, fig. 22.
Frech and Geinitz 1903 A, 36.
Gaudry, A. 1903 A, 553 ("elans").
Goddard, P. E. 1927 A, 68 ("moose").
Grant, M. 1902 A, 225, 14 figs.
1904 A, 374, figs. ("moose").
1904 B, 200.
Hartnagel and Bishop 1921 A, 91.
Haug, E. 1911 A, 1873.
Hay, O. P. 1912 D, 628, fig. 47.
1914 A, 259, 270, fig. 93.
1920 B, 125, pl. vi, figs. 3-4.
1923 A, 479.
1927 D, 125, 282.
Hrdlička, A. 1903 A, 375.
Leidy, J. 1889 H, 19 (Alce).
Lobley, J. L. 1908 A, 195 (A. machlis).
Lydekker, R. 1915 D, 234, fig. 36 (A. alces americanus).
Matschie, P. 1896 A, 252 ("elch").
Merriam, C. H. 1884 A, 40 (Alce).
Miller, G. S. 1912 B, 391.
1924 C, 490.
Obalski, T. 1904 A, 216 ("elan").
Osborn, H. F. 1910 B, 478, 490 (This species?).
Rhoads, S. N. 1903 A, 240.
Scharff, R. F. 1911 A, 32, 56, fig. 3.
Scott, W. B. 1913 A, 151, 156, 202, figs. 65, 202, 208, 412 (Alce).
Seton, E. T. 1906 B, 157-178, figs. ("moose").
1909 A, 144, pls. vii-ix; text-figs. 56-79, map 7.
Trouessart, E. L. 1905 A, 700 (Alce).
Wright, G. F. 1905 A, 18 ("moose").
1911 A, 282 ("moose").
1911 B, 675 ("moose").
1911 C, 42 ("moose").

Recent; Nova Scotia to Montana and northward: Pleistocene; Pennsylvania, Ohio, Illinois, Kentucky, Minnesota, Oklahoma.

Alces brevitrabalis Cope.

Hay, O. P. 1902 A, 685.
1914 A, 273.
1927 D, 251.
McCornack, E. C. 1920 A, 15, 16, 23 (A. sp. *a*).
Matthew, W. D. 1902 F, 321.
Stock, C. 1925 A, 199.

Pleistocene (Early); Washington State.

Alces runnymedensis Hay.

Hay, O. P. 1923 A, 363, 364.
1916 A, 387 ("moose").
1927 C, 282 ("moose").
1919 D, 364 ("moose").

Pleistocene (Early); South Carolina.

Alces semipalmata Cope.

Hay, O. P. 1902 A, 685.
1914 A, 273.
1927 D, 251.
McCornack, E. C. 1920 A, 15, 16, 23 (A. sp. *b*).
Matthew, W. D. 1902 F, 321.
Stock, C. 1925 A, 199.

Pleistocene (Early); Washington.

Alces shimeki Hay.

Hay, O. P. 1914 A, 26, 272, pl. xxxi, fig. 8; pl. xxxii, fig. 3.
Baker, F. C. 1920 A, 226, 243, 395 (A. shimekii).
Hay, O. P. 1928 C, 425.

Pleistocene (Aftonian); Iowa.

Alces sp. indet.

Bretz, J. H. 1913 A, 181 ("elk"). Pleistocene (Admiralty sediments); Washington.
Gilmore, C. W. 1908 A, 36 (Alce). Pleistocene; Alaska.
Hay, O. P. 1927 D, 109, 252, 259. Pleistocene; Washington.
Quackenbush, L. S. 1909 A, 127 (Alce). Pleistocene; Alaska.

CERVUS Linnæus. Type *C. elaphus* Linnæus.

Hay, O. P. 1902 A, 684.
Abel, O. 1909 E (248).
1912 F, 239, 630, 664.
1913 B, 744 ("edelhirsch").
Alezais, —— 1902 A, 586.
Allen, J. A. 1892 A.
Altmann, F. 1925 A, 108.
Ameghino, F. 1885 A, 203.
1889 A, 1008.
1904 A, 215.
Anderson, R. J. 1902 A, 1118.
1905 A, 332.
Antonius, H. O. 1920 A, 37 ("hirsche").
Beddard, F. E. 1902 A, 293.
Bertelli, D. 1909 A, 166.
Beyer, H. 1908 A, 81, 97 ("hirsch").
Boas, J. E. V. 1884 B, 395.
1917 A, 9, pl. ii, fig. 1.
Bonsdorff, E. J. 1871 A, 318.
Botezat, E. 1903 A, 105.
1904 A, 594.
Bronn, H. G. 1848 A, 277.
1849 A, 709, 783, seq.
Brown, A. E. 1904 B, 79.
Brown, B. 1926 A, 1, figs. 1-5.
Camerano, L. 1916 A, 3, pl. ii, fig. 1; pl. ii, fig. 10.
1916 B, 5, pl. vii.
Cameron, A. G. 1910 A, 51.
1910 B, 154, 215.
Carus, V. 1875 A, 154.
Carus and Engelmann 1861 A, 1720.
Cooke, C. W. 1926 A, 445 ("elk," "reindeer").
Dana, J. D. 1863 C, 336 ("stag").
Dawkins, W. B. 1878 A, 403.
1887 A, 11.
De Stefani, C. 1921 A, 256.
Dietrich, K. 1841 A, 87.
Dietrich, W. O. 1910 A, 318.
Döderlein, L. 1902 A, 420.
Doran, A. H. G. 1878 A, 429, pl. lxi.
Eichwald, E. 1835 A, 689.
Eimer, G. H. T. 1901 A, 218.
Elliot, D. G. 1901 A, 34.
Fischer, J. B. 1829 A, 440.
Frey, H. 1911 A, 418.
Geikie, J. 1914 A, 326 ("red-deer").
Geinitz, E. 1903 A.
1904 A.
Geoffroy St. Hilaire, E. F. 1824 F, 82.
1832 A, 355 ("cerf").
Gervais, P. 1859 A, 145.
Gidley, J. W. 1912 C, 19.
Giebel, C. G. 1855 A, 66.
Gill, T. 1877 A, 136.
Grant, M. 1904 B, 201.
Haller, G. 1922 A.
Hasse and Schwarck 1870 A, 134.
Hay, O. P. 1909 A, 892.
1912 D, 616.
1914 A, 252.
1923 A, 481.
Hamilton, Marquis of, 1910 A, 199 ("red deer").
Heilprin, A. 1887 A, 380, 381.
Hensel, R. 1879 A, 555.
Hermann, R. 1907 B, 284, fig. 1.
Hilzheimer, M. 1922 A, 712, 749.
Hoernes, R. 1912 A, 663.
Holding, R. E. 1905 A, 1.
Hrdlička, A. 1903 A, 377.
Hue, E. 1907 A, pls. lix, lxii, lxxviii, lxxxvii, cii, cxvi, cxxx, cxl, cliii, clxvii, clxxxiii.
Huxley, T. H. 1856 A, 46 ("deer").
1870 F, 542.
Kampfen, P. N. 1905 A, 600.
Khomenko, J. 1913 A, 139.
Knottnernus-Meyer, T. 1907 A, 25, 98, 112, fig.
Köstlin, O. 1844 A.
Korff, K. 1914 A, 691-732, pls. xxiii, xxiv; text-figs. 1-11.
Leunis and Ludwig 1883 A, 262.
Leuthardt, F. 1891 A, 127.
Leydig, F. 1859 A, 705 ("hirsch").
Loder, E. G. 1914 A, 488.
Loomis, F. B. 1905 B, 842 ("elk").
1925 E, 591, 597, figs. 5, 11, 12.
Lubosch, W. 1914 A, 425.
Lydekker, R. 1902 A, 375.
1907 B, 52.
1910 E, 352 ("red deer").
1915 D, 46.
Major, C. J. F. 1901 B, 241.
Matschie, P. 1899 A, 130, 132 ("edelhirsch").
1907 B, 221.
Matsumoto, H. 1926 C, 23.
Matthew, W. D. 1908 A, 549, 557, 558, 559.
1910 G, 155.
1915 A, 247.
1915 K, 403.
Merriam, C. H. 1892 A, 62.
Merriam, J. C. 1915 E, 193, 194, 299.
1917 A.
Meckel, J. F. 1825 A.
Miller, G. S. 1912 A, 962.
1912 B, 385.
1924 C, 483.
Nehring, A. 1880 A.
Newton, E. T. 1882 A, 52.
1891 A, 25.
Nitsche, H. 1898 A, 1-80, pls. i-iii; pl. v, figs. 5, 6; pl. x.
Nopcsa, F. 1923 H, 170 ("hirsche").
Osborn, H. F. 1909 D, 86, 87, 89.
1910 A, 214.
1910 B, 609.
1912 G, 251.
1916 B, 537.
1926 C, 340.
Owen, R. 1845 B, 533, pl. cxxxiv.
1868 A, 628.
Palacký, J. 1903 B, 318.
Palmer, T. S. 1904 A, 174, 922.
Pander and Alton 1823 A, 7, pl. v.
Pavlow, M. 1906 B, 20.
Perna, G. 1906 A, 131.
Petronievics, B. 1921 A, 108.
Pocock, R. I. 1910 A, 97.
1912 A, 778, fig. 110.
Rhumbler, L. 1913 A, 578.
1914 A, 154 ("hirsch").
Rörig, A. 1901 A, 56.
1902 A, 541.

Scharff, R. F. 1895 A, 447.
1911 A, 68.
Schlosser, M. 1903 I, 113, 121, 186, 209.
1904 C, 96.
1924 B, 636.
Schmidt, O. 1886 A, 162, fig. 24 ("red deer").
Scott, W. B. 1913 A, 208, 678.
Seeley, H. G. 1872 A, 277 ("deer").
Serres, M. 1852 A, 121 ("cerf").
Seton, E. T. 1909 A, 37.
Stejneger, L. 1907 A, 462.
Strasser, H. 1885 A, 204.
Stromer, E. 1906 A, 217.
Taschenberg, O. 1899 A, 4526.
Tornier, G. 1903 A, 453, figs. 1-11.
Trouessart, E. L. 1905 A, 694.
1906 A, 66.
Virchow, H. 1909 A, 419, figs. 1, 2.
Wallace, A. R. 1876 A, I, 492.
Weber, M. 1904 A, 670, 672.
Weber and Abel 1928 A, 573, 577.
Weber and Burlet 1927 A, 251, fig. 190.
Wherry, G. 1902 A, 973 ("stag").
Winge, H. 1906 A, 112.
Wright, R. R. 1883 A, 291.
Wüst, E. 1901 A, 304, 310 (Elaphus).
Zietzschmann, O. 1917 A, 442.
Zimmer, A. 1905 A, 2 ("hirsche").
Zittel and Schlosser 1911 A, 494.
1923 A, 583, 680.

Cervus canadensis Erxleben.

Hay, O. P. 1902 A, 685.
Anderson, R. J. 1902 A, 1119, fig. 2.
Antonius, H. O. 1920 A, 40 ("wapiti").
Baker, F. C. 1920 A, 456.
Bell, R. 1898 A, 377.
Blatchley, W. S. 1898 A, 90 ("elk").
Botezat, E. 1903 A, 106 ("wapiti").
Brandt and Woldrich 1887 A, 104 (C. elaphus).
Brown, A. E. 1904 B, 80.
Brown, B. 1908 A, 204.
Caton, J. D. 1877 A, figures.
Clark, J. M. 1888 A, 389 ("elk"?).
1904 A, 931 ("elk").
Coleman, A. P. 1904 A, 351 ("wapiti").
1917 A, 359 ("wapiti").
Cuvier, G. 1825 A, IV, 26, pl. iii.
Dawson, J. W. 1863 F, 914.
Dietrich, W. O. 1910 A, 334.
Edwards, J. J. 1902 A, 248 (Cariacus americanus, This species?).
Elliot, D. G. 1901 A, 34, pl. xii.
Elrod and Benedict 1892 A, 240 ("elk").
Fischer, J. B. 1829 A, 442.
Gaudry, A. 1875 A, 1282.
1903 A, 553 ("cerfs").
Gidley, J. W. 1911 A, 436 ("Cervus?").
Hahn, W. L. 1909 A, 454.
Harlan, R. in Conrad, T. A. 1838 A, xi ("elk").
1842 B, 143 ("elk").
Hartnagel and Bishop 1921 A, 88.
Haug, E. 1911 A, 1886, 1887.
Hay, O. P. 1912 D, 616, text-fig. 45.
1914 A, 32, 38, 252, pl. xxxi, figs. 6, 7; text-fig. 90.
1918 C, 346.
Hay, O. P. 1920 B, 92, 103, 116, 124, pl. iii, fig. 16.
1923 A, 481.
1927 D, 303.
Henning, C. L. 1912 A, 602.
Hermann, R. 1909 A, 86.
Hitchcock, E. 1885 A, 450 ("elk").
Holding, R. E. 1905 A, 1, fig. B ("wapiti").
Holmes, F. S. 1859 A, 184 ("elk").
1860 A, vi, vii ("elk").
Holmes, W. H. 1903 A, 244 ("elk").
Hussey, J. 1878 A, 476 ("elk." This species?).
Lambe, L. M. 1904 C, 31, 39, 51.
1912 A, 14.
Lindgren and Drake 1904 A, 3 (This species?).
Lydekker, R. 1910 B, 988, fig. 143.
1915 D, 129, fig. 24.
M'Caslin, D. S. 1883 A, 169 ("elk." This species?).
Matschie, P. 1896 A, 252 ("rothirsch").
1907 B, 221.
Matsumoto, H. 1926 D, 36.
Matthew, W. D. 1915 A, 245.
Mercer, H. C. 1894 A, 98 ("elk").
Merriam, C. H. 1884 A, 143 ("elk").
Miller, B. L. 1912 A, 5.
Miller, G. S. 1912 B, 385.
1924 C, 483.
Miller and Stephenson 1912 A, 50, 55 ("elk").
Newberry, J. S. 1870 D, 28 ("elk." This species?).
Nitsche, H. 1898 A, 40, pls. vi, vii.
Obalski, T. 1904 A, 216 ("cerf à grands bois").
Osborn, H. F. 1909 D, 90.
1910 B, 440, 450, 478, 488, 489.
Pavlow, M. 1906 A, 200.
Peabody, C. 1913 A, 4 ("elk").
Phinney, A. J. 1883 A, 181 ("elk").
Pocock, R. I. 1912 A, 774, fig. 108.
Putnam, F. W. 1900 B, 275 ("elk." This species?).
1911 A, vi ("elk").
Quackenbush, L. C. 1909 A, 127 ("Cervus")
Rhoads, S. N. 1903 A, 241.
Rhumbler, L. 1913 B, 90.
Rörig, A. 1901 A, 56.
Savage, J. 1878 A, 10 ("elk").
Scharff, R. F. 1895 A, 448.
1911 A, 56, 67, 80.
Schmidt, E. 1872 A, 251.
Schmidt, O. 1886 A, 163.
Scott, W. B. 1913 A, 151, 155 (fig. 63), 202, 208, 412.
Seton, E. T. 1906 A, 15-33, figs.
1909 A, 37, pls. i-iv; text-figs. 2-14, map 4.
Shaler, N. S. 1877 A, 197 ("elk").
Spencer, J. W. 1883 A, 308.
Stephenson, L. W. 1912 B, 268 ("elk").
Trouessart, E. L. 1905 A, 698.
Volk, E. 1911 A, 111, 123-127, pls. xciii-xcv; text-fig. 24 (This species?).
1912 A, 185 ("elk." This species?).
Weber and Abel 1928 A, 568, 580, fig. 388.
Worthen, A. H. 1873 A, 308 ("elk").
1890 A, 23 ("elk").
Wright, R. R. 1883 A, 292, fig. 145.
Wyman, J. 1846 B, 391 (Elephas can.).

Zdansky, O. 1925 A, 80, pl. xv, figs. 1-5; pl. xvi, fig. 103 (C. c. fossilis).
1927 A, 16, text-fig. 6 (C. c. mongoliæ).
1928 A, 106, pls. xii, xiii (C. c. mongoliæ).
Recent; Minnesota west to Vancouver Island, south to New Mexico: Pleistocene; Ontario, Vermont, New York, Pennsylvania, Michigan, Indiana, Illinois, Wisconsin, Maryland, North Carolina, South Carolina, Georgia?, Tennessee, Kentucky, Arkansas, Missouri, Kansas, Iowa, California?, Washington.

Cervus fortis Cope.

Hay, O. P. 1902 A, 685.
Gilbert, G. K. 1890 A, 394.
Hay, O. P. 1927 D, 111.
Palacký, J. 1903 B, 318.
Pleistocene ("Loup Fork"); Oregon.

Cervus lucasi Hay.

Hay, O. P. 1927 D, 303, pl. ix, figs. 7, 8.
Lucas, F. A. 1900 H, 99 ("Cervus, possibly new").
1904 F, 3 ("Cervus, possibly new").
Merriam, J. C. 1917 A, 432 (Sp. indet.).
Pleistocene? (Idaho); Idaho.

Cervus sp. indet.

Cook, H. J. 1912 D, 45. Pliocene (Snake Creek); Nebraska.
Cope, E. D. 1883 L, 166 ("Cervus." This genus?). Pleistocene (Idaho); Idaho.
Gidley, J. W. 1915 D, 20 ("Cervus." This genus?). Florida.
1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1923 A, 481. Pleistocene; Idaho, Georgia, Tennessee.
1924 D, 375. Pleistocene; Arkansas, Iowa, Kansas, Missouri, Oklahoma.
1927 C, 282 ("reindeer"). Pleistocene; Florida.
1927 D, 302, 303. Pleistocene; California, Florida, Idaho; 274 (Taurotragus?). Pleistocene; Florida.
Merriam, J. C. 1915 E, 228, figs. 46-48 ("Cervus or Odocoileus"). Pliocene? (Etchegoin); California.
1916 E, 172. Pleistocene? (Etchegoin); California.
1917 A, 425 (This genus?); Pliocene (Etchegoin); California.
Shimek, B. 1910 B, 316 ("Cervus"). Pleistocene (Aftonian); Iowa.
Sinclair, W. J. 1915 A, 77. Pliocene (Snake Creek); Nebraska.

SANGAMONA Hay. Type *S. fugitiva* Hay.

Hay, O. P. 1920 B, 91.
Zittel and Schlosser 1923 A, 583 (Sangonoma).

Sangamona fugitiva Hay.

Hay, O. P. 1920 B, 91, 102, 111, pl. iii, figs. 14, 15; pl. v, figs. 5, 6.
1928 C, 429.
Leighton, M. M. 1921 A, 513.
Pleistocene (Middle); Tennessee, Maryland, Illinois.

Sangamona? sp. indet.

Hay, O. P. 1921 A, 608, 610 (This genus?). Pleistocene; Oregon, Washington.
1927 D, 109, 259 (This genus?). Pleistocene; Oregon, Washington.

MERYCODONTIDÆ Matthew.

Matthew, W. D. 1904 A, 102, 103.
Arldt, T. 1912 A, 746 (Merycodontinæ).
Grant, M. 1904 B, 202 ("merycodonts").
Hilzheimer, M. 1922 A, 745.
Matthew, W. D. 1907 A, 176.
1909 C, 114, 115, 118, 120 (Merycodontinæ).
Osborn, H. F. 1905 H, 222.
Osborn, H. F. 1905 I, 106.
1909 D, 129.
1910 B, 289, 295, 356, 454, 553.
Peterson, O. A. 1912 B, 164.
Scharff, R. F. 1911 A, 112 (Merycodontinæ).
Scott, W. B. 1913 A, 362, 414.
Trouessart, E. L. 1905 A, 667 (Agriochœridæ).

MERYCODUS Leidy. Type *M. necatus* Leidy.

Hay, O. P. 1902 A, 683.
Baird, S. F. 1876 A, 336 (Dicroceras).
Boas, J. E. V. 1914 B, 594.
Brown, A. E. 1904 B, 81 (Cosoryx).
Chandler, A. C. 1914 A, 155.
Cope, E. D. 1874 U, 148 (Cosoryx).
1880 U, 157 (Cosoryx).
Dall and Harris 1892 A, 316 (Cosoryx).
Depéret, C. 1912 A, 709.
Douglass, E. 1909 A, 477.
Frick, C. 1926 A, 20.
Furlong, E. L. 1927 A, 145-175.
Giebel, C. G. 1883 A, 135.
Haug, E. 1911 A, 1706.
Hay, O. P. 1925 D, 245.
Hilzheimer, M. 1922 A, 745.
Loomis, F. B. 1925 E, 593, 597, figs. 6, 11, 12.
1928 B, 535, fig. 6.
Lydekker, R. 1914 B, 229.
Matthew, W. D. 1902 F, 318.
1904 A, 101, 103, 105, 111, 123.
1908 A, 542.
1909 C, 120.
1915 A, 250.
1915 K, 458, fig. 32.
1918 A, 219.
1924 C, 70, 198, 200.
1924 E, 748.
1926 B, 6.
Matthew and Cook 1909 A, 411.
1909 B, 197.
Merriam, J. C. 1911 B, 207, 208, 215, 217, 221.

Merriam, J. C. 1915 F, 256.
1917 A.
1919 A, 451, 452, 517, 528, 537.
Merriam and Pack 1913 A, 128.
Merriam, Stock, Moody 1925 A, 59.
Osborn, H. F. 1905 I, 106.
1909 D, 79 (Cosoryx).
1910 B, 623.
1918 A, 16, 24, 33 (Merycodus); 27 (Cosoryx).
Palmer, T. S. 1904 A, 201, 922 (Cosoryx); 411, 924 (Merycodus).
Peterson, O. A. 1912 B, 165.
Scharff, R. F. 1911 A, 112.
Schlosser, M. 1924 B, 639.
Scott, W. B. 1913 A, 224, 414.
Taylor, W. P. 1911 A, 191.
Trouessart, E. L. 1905 A, 712.
Troxell, E. L. 1916 A, 347.
Wallace, A. R. 1876 A, I, 138; II, 220.
Weber, M. 1904 A, 672 (Cosoryx).
Zittel and Schlosser 1911 A, 496.
1923 A, 587, 673, 679.

Merycodus agilis (Douglass).

Hay, O. P. 1902 A, 683.
Douglass, E. 1903 A, 155.
Matthew, W. D. 1904 A, 123.
1909 C, 118.
Trouessart, E. L. 1905 A, 712 (Syn.? of M. furcatus).
Middle Miocene (Madison Valley); Montana.

Merycodus altidens Matthew.

Matthew, W. D. 1924 C, 68, 200, fig. 60 (This genus?).
Parks, W. A. 1925 C, 432, 434.
Lower Pliocene (Upper Snake Creek); Nebraska.

Merycodus? coronatus Merriam, J. C.

Merriam, J. C. 1913 C, 336, figs. 1-3.
Abel, O. 1914 A, 182, fig. 140.
Merriam, J. C. 1919 A, 450, 517, 521, 527, fig. 135*a*.
Upper Miocene (Barstow); California.

Merycodus furcatus (Leidy).

Hay, O. P. 1902 A, 683.
Baird, S. F. 1876 A, 336 (Antilope).
Cope, E. D. 1874 U, 148 (Cosoryx).
1885 FF, 793, fig. 4 (Cosoryx).
Furlong, E. L. 1927 A, 146-176, pls. xxiv, xxvi; text-figs. 1-16, 20-28.
Louderback, G. D. 1924 A, 9.
Matthew, W. D. 1904 A, 103, 110, 122, figs. 5, 6.
1909 C, 118.
1924 C, 200.
Merriam, J. C. 1911 B, 205, 206, 214, 284, fig. 66 (This species?).
1916 A, 194, figs. 43-45.
1919 A, 453, 454.
Merrill, G. P. 1907 A, 31 (Cosoryx); 32 (Dicrocerus).
Osborn, H. F. 1918 A, 17, 27.
Parks, W. A. 1925 C, 432.
Scott, W. B. 1913 A, 415.
Trouessart, E. L. 1905 A, 712.
Lower Pliocene (Valentine); Nebraska: (Santa Fe); New Mexico: (Virgin Valley); Nevada: (Cedar Mountain); California.

Merycodus grandis Hay.

Hay, O. P. 1924 A, 17, pl. iii, figs. 9-11.
Upper Miocene (Fleming); Texas.

Merycodus necatus Leidy.

Hay, O. P. 1902 A, 683.
Abel, O. 1914 A, 182, fig. 140.
Baird, S. F. 1876 A, 336 (Cervus warrenii).
Barbour, E. H. 1914 B, 189.
1914 C, 222.
Barbour and Cook 1917 A, 172.
1917 B, 180.
Cook, H. J. 1912 D, 45 (This species?).
Dall and Harris 1892 A, 292 (Merycadus).
Douglass, E. 1903 A, 155, 197, fig. 36 (This species?).
Furlong, E. L. 1927 A, 146-176, pls. xxiv-xxvii; text-figs.
Gidley, J. W. 1904 A, 245.
Hay, O. P. 1927 D, 136 (This species?).
Louderback, G. D. 1924 A, 9 (This species?).
Matthew, W. D. 1904 A, 103, 121.
1909 C, 118.
1918 A, 187, 219, fig. 18.
1924 C, 68, 70, 72, 200, 204.
Merriam, J. C. 1911 E, 168, pl. xxix, figs. 6-8.
1913 C, 338, fig. 4.
1915 E, 233.
1916 A, 197, fig. 42 (This species?).
1916 C, 127, figs. 16-21 (This species?).
1917 A, 426, 431, 437 (This species?).
1919 A, 450, 453, 517, 525, 527, figs. 113-117, 126-134, 234-252 (This species?).
Merrill, G. P. 1907 A, 28 (Cervus warreni); 33 (Dicrocerus); 48 (Merycodus).
Osborn, H. F. 1918 A, 23.
Parks, W. A. 1925 C, 432.
Sinclair, W. J. 1915 A, 77 (This species?).
Trouessart, E. L. 1905 A, 712.
Miocene (Bijou Hills); South Dakota: (Sheep Creek, Snake Creek, Valentine and Devil's Gulch); Nebraska: (Chanac); California.

Merycodus necatus sabluonis Matthew and Cook.

Matthew and Cook 1909 A, 411, fig. 24.
Barbour, E. H. 1915 A, 92.
Matthew, W. D. 1924 C, 200.
Merriam, J. C. 1917 A, 426, 431, 437.
Troxell, E. L. 1916 A, 347.
Upper Miocene (Lower Snake Creek); Nebraska.

Merycodus nevadensis Merriam.

Merriam, J. C. 1911 B, 205, 209, 214, figs. 64, 65.
Miocene (Virgin Valley); Nevada.

Merycodus osborni Matthew.

Matthew, W. D. 1904 A, 103, 107, pl. iii; text-figs. 1-4, 7-16; frontispiece.
1909 C, 115.
1924 C, 72, 200.

Matthew and Cook 1909 A, 412.
Merriam, J. C. 1919 A, 519.
Osborn, H. F. 1904 F, 36.
1905 I, pl. vi.
1910 B, 294, fig. 146.
Parks, W. A. 1925 C, 432.
Scott, W. B. 1913 A, 415, fig. 222.
Trouessart, E. L. 1905 A, 712.
Zittel and Schlosser 1911 A, 497, fig. 694.
1923 A, 587, fig. 735.
Upper Miocene (Pawnee Creek); Colorado, South Dakota.

Merycodus ramosus (Cope).

Cope, E. D. 1874 U, 148 (Cosoryx).
Hay, O. P. 1902 A, 683.
Matthew, W. D. 1904 A, 103, 122 (This species?).
1909 C, 118.
1924 C, 200.
Merrill, G. P. 1907 A, 31 (Cosoryx).
Parks, W. A. 1925 C, 432 (M. ramulosus).
Trouessart, E. L. 1905 A, 712.
Lower Pliocene (Santa Fé); New Mexico.

Merycodus tehuanus (Cope).

Hay, O. P. 1902 A, 683.
Matthew, W. D. 1909 C, 118 (This genus?).
1924 C, 200 (Dicrocerus).
Merrill, G. P. 1907 A, 33 (Dicrocerus).
Lower Pliocene (Santa Fé); New Mexico.

Merycodus warreni (Leidy).

Leidy, J. 1858 E, 23 (Cervus).
Hay, O. P. 1902 A, 683 (M. necatus in part).
Leidy, J. 1869 A, 172, 379, pl. xxvii, fig. 12 (Cervus).
Matthew, W. D. 1924 C, 200.
Parks, W. A. 1925 C, 432.
Lower Pliocene (Valentine); Nebraska.

Merycodus sp. indet.

Buwalda, J. P. 1916 A, 80. (Mojave Desert); California.
1924 A, 572. Middle Neocene (Payette); Idaho.
Cook, H. J. 1922 B, 12 (This genus?). Pliocene (Snake Creek); Colorado.
Douglass, E. 1907 A, 809 (Cosoryx). Miocene; Montana.
Frick, C. 1921 A, 382, fig. 102 (Merycodus? Ilingoceros? Antilocapra?). Pliocene (Eden); California.
1926 A, 106. Miocene (Pawnee Creek); Colorado.
Furlong, E. L. 1927 A, pls. xxv, xxvi, xxviii. Miocene (Barstow); California.
Gidley, J. W. 1918 C, 180. Late Tertiary (Flaxville); Montana.
1922 B, 120, 121. Pleistocene (San Pedro Valley); Arizona.
1926 A, 83. Upper Pliocene or Lower Pleistocene.
Hay, O. P. 1924 D, 169. Pliocene?; Montana.
Matthew, W. D. 1923 A, 12 (This genus?). Lower Pliocene (Upper Snake Creek); Nebraska.
Matthew and Cook 1909 A, 412, fig. 25.
Merriam, J. C. 1914 A, 280, fig. 3 (This genus?).
1915 B, 287, figs. 4, 5. Miocene?; California.
1917 A, 437, 438. Miocene (Snake Creek and Republican River); Nebraska.
1919 A, 518, figs. 118-125. Miocene (Barstow); California.
Merriam and Pack 1913 A, 128. Miocene; California.
Sinclair, W. J. 1915 A, 77. Pliocene (Snake Creek); Nebraska.
Stock, C. 1925 A, 21 (This genus?). Lower Pliocene (Eden); California.

Capromeryx Matthew. Type *C. furcifer* Matthew.

Matthew, W. D. 1902 F, 318.
Chandler, A. C. 1916 A, 111.
Diener, C. 1912 A, 216.
Furlong, E. L. 1927 A, 155, 167.
Gidley, J. W. 1913 D, 3.
Hay, O. P. 1925 D, 245.
Loomis, F. B. 1928 B, 542.
Matthew, W. D. 1904 A, 104, 126.
1918 A, 219.
1924 C, 204.
1926 B, 6.
Merriam, J. C. 1915 G, 100 ("deer-antelope").
Osborn, H. F. 1909 D, 86, 87.
1910 B, 454, 456, 553.
1925 D, 532.
Palmer, T. S. 1904 A, 159, 922.
Scharff, R. F. 1911 A, 113.
Scott, W. B. 1913 A, 417.
Stremme, H. 1911 A, 88.
Taylor, W. P. 1911 A, 191, 196.
Trouessart, E. L. 1905 A, 712.
Weber, M. 1904 A, 682.
Weber and Abel 1928 A, 591.
Zittel and Schlosser 1911 A, 496.
1923 A, 587, 680.

Capromeryx furcifer.

Matthew, W. D. 1902 F, 318.
Baker, F. C. 1920 A, 209, 213, 395.
Freudenberg, W. 1910 A, 28.
Haug, E. 1911 A, 1886.
Hay, O. P. 1914 A, 26.
1928 C, 423, 425.
Matthew, W. D. 1904 A, 104, 127, fig. 20.
1918 A, 227.
Osborn, H. F. 1910 B, 456.
Parks, W. A. 1925 C, 432.
Trouessart, E. L. 1905 A, 712.
Pleistocene (Sheridan); Nebraska.

Capromeryx mexicana Furlong.

Furlong, E. L. 1925 A, 145, figs. 7-10.
1927 A, 149-175; text-figs. 1-17, 20-28.
Pleistocene; Mexico.

Capromeryx minor Taylor.

Taylor, W. P. 1911 A, 192, figs. 1-6 (This genus?).
Chandler, A. C. 1914 A, 155.
1916 A, 111, figs. 1-4.

Freudenberg, W. 1922 A, 5.
Furlong, E. L. 1925 A, 150, fig. 11.
  1927 A, 159.
Hay, O. P. 1927 D, 303.
Merriam, J. C. 1908 D, 473 ("deer-like animal").
  1918 D, 519 ("Capromeryx").
Merriam and Stock 1925 A, 11.
Miller, L. H. 1912 A, 78.
Osborn, H. F. 1925 D, 531.
Parks, W. A. 1925 C, 432, 434.
Stock, C. 1925 A, 30, 118.
Wyman, L. E. 1922 A, 29, fig. 20.
  Pleistocene (La Brea); California, Mexico.

Capromeryx sp. indet.

Freudenberg, W. 1921 A, 139. Pleistocene; Mexico.
  1922 A, 5. Pleistocene; Mexico.
Hay, O. P. 1927 D, 162. Pleistocene (Bautista); California.
Stock, C. 1925 A, 119. Pleistocene (Bautista); California.

Superfamily BOVOIDÆ, new form.

Unless otherwise indicated the authors, as cited, use for this superfamily the name Pecora.

Hay, O. P. 1902 A, 681 (Boöidea).
Abel, O. 1913 B, 729, 745 (Cavicornia).
  1914 A, 184 (Boödontia).
Ameghino, F. 1889 A, 1024 (Ruminantia).
Beddard, F. E. 1902 A, 290.
Beyer, H. 1908 A, 81 ("wiederkäuer").
Black, N. 1900 A, 11.
Boas, J. E. V. 1914 B, 589.
Bonaparte, C. L. 1833 A, 1043 ("ruminants").
Burmeister, H. 1879 B, 454 (Ruminantia).
Carus, V. 1875 A, 148 (Cavicornia).
Carus and Engelmann 1861 A, 1296, 1687 (Ruminantia, in part).
Clark and Sonntag 1926 A, 482.
Cope, E. D. 1891 N, 87 (Boöidea).
Cuvier, G. 1805 A ("ruminans").
  1825 A, IV, 1-228, pls. i-xiii ("ruminans").
Dana, J. D. 1863 C, 336 ("ruminants").
Dietrich, K. 1841 A, 86 ("wiederkäuer").
Duméril, A. M. C. 1806 A, 24 (Ruminantia).
Eisler, P. 1895 A, 54 ("wiederkäuer").
Ellenberger and Baum 1903 A ("wiederkäuer").
Ganzer, H. 1908 A, 159 ("wiederkäuer").
Gaupp, E. 1905 D, 1039 (Ruminantia).
Gervais, P. 1853 B, 30 ("ruminants").
Giebel, C. G. 1883 A, 25 ("wiederkäuer").
Gill, T. 1872 B, 8, 24 (Boöidea).
Gray, J. E. 1821 A, 307 (Ruminantia).
Gregory, W. K. 1910 A, 23, 24, 30, 33 (Pecora); 18, 466 (Ruminantia).
Hasse and Schwarck 1870 A, 130 (Ruminantia).
Hay, O. P. 1912 D, 609 (Boöidea).
  1914 A, 244 (Boöidea).
Hoernes, R. 1886 A, 679 (Cavicornia).
Hogben, L. T. 1919 A, 75.
Huene, F. 1912 F, 522 ("wiederkäuer").
Humphrey, G. M. 1876 A, 664 ("ruminants").
Ihde, —— 1912 A, 265 ("ruminanten").
Jaeger, G. F. 1842 A, 438 ("wiederkäuer").
Jaekel, O. 1911 A, 234 (Ruminantia).
Knottnerus-Meyer, T. 1907 A, 9, 97, 104 (Ruminantia).
Köstlin, O. 1844 A ("wiederkäuer").
Kowalewsky, W. 1877 A, 148 ("wiederkäuer").
Kükenthal, W. 1913 A, 683 (Ruminantia, in part).
Laloy, L. 1907 A, 586 ("ruminants").
Ledouble, A. F. 1906 A, 550, 589 ("ruminants").
Leunis and Ludwig 1883 A, 242 (Cavicornia).
Linnæus, C. 1758 A, 65.
Lull, R. S. 1904 C, 2.
Lydekker, R. 1907 B, 13.
  1913 B, 4, 8.
Magitot, E. 1875 A, 80 ("ruminants").
Martins, C. 1857 A, 69 ("ruminants").
Matthew, W. D. 1904 A, 102 (Booidea).
  1907 A, 178.
  1915 A, 242 ("ruminants").
Matthew and Granger 1925 C, 10.
Meckel, J. F. 1823 A, 1 ("wiederkäuer").
  1825 A ("wiederkäuer").
Nat. Sci. 1898 A, 371 ("ruminants").
Oken, L. 1823 A, 341 ("rinder").
Osborn, H. F. 1909 D, 76.
  1910 B, 551.
  1912 B, 255 ("cattle").
Pander and Alton 1823 A, 1, 6 ("wiederkäuer").
Petersen, G. 1921 A, 295 (Cavicornia).
Reichert, K. B. 1849 A, 474 ("wiederkäuer").
Reid, G. A. 1898 A, 359 ("horned ruminants").
Retterer, E. 1884 A, 490 ("ruminants").
Retzius, A. 1849 A, 664 (Ruminantia).
Reynolds, S. H. 1897 A, 553 (Ruminantia, Pecora).
Rhumbler, L. 1914 A, 154 ("cavicornier").
Robin and Herrmann 1882 A, 205 ("ruminants").
Rutland, J. 1901 A, 21033 ("ruminants").
Schlosser, M. 1899 T, 451 ("rinder").
Schmidt, O. 1886 A, 173 (Cavicornia).
Scott, W. B. 1893 D, 57.
  1913 A, 409, 421.
Serres, M. 1852 A, 145 ("ruminants").
  1852 B, 197 ("ruminants").
Stehlin, H. G. 1910 A, 1143 (Ruminantia).
Terra, P. 1911 A, 327.
Vivq-d'Azyr, F. 1792 A, cviii (Ruminantes).
Wagner, R. 1843 A ("ruminanten").
Wallisch, W. 1906 A, 307 ("wiederkäuer").
Weber, M. 1904 A, 628, 643, 655 (Ruminantia); 645 (Selenodontia).
Weber and Abel 1928 A, 565 (Pecora).
Weber and Burlet 1927 A, xv (Pecora).
Winge, H. 1906 A, 70 (Bovidæ).
Wright, R. R. 1883 A, 276, 289 (Ruminantia, Pecora).
Zimmerman, A. 1912 A, 650 ("wiederkäuer").

GIRAFFIDÆ Gray.

Gray, J. E. 1821 A, 307.
Abel, O. 1914 A, 121, 180, 181.
 1919 A, 813.
Black, D. 1915 A, 329.
Bohlin, B. 1927 A, 1-178.
Cope, E. D. 1887 B, 379.
Falconer, H. 1868 A, 197.
Flower and Lydekker 1891 A, 330.
Gill, T. 1872 B, 76.
Knottnerus-Meyer, T. 1907 A, 35.
Lydekker, R. 1882 B, 99 (Camelopardalidæ).
 1885 C, 58.
 1914 B.
Major, C. J. F. 1891 A, 315.
 1901 B, 242.
Matthew, W. D. 1925 D, 35, 40.
 1928 B, 968, 981, fig. 16.
Owen, R. 1845 B, 529 ("giraffe").
Palmer, T. S. 1904 A, 925.
Pilgrim, G. E. 1911 A, 1, 23.
Reynolds, S. H. 1897 A, 469.
Schlosser, M. 1903 I, 97 (Camelopardalidæ).
Schwarz, E. 1924 A, 421 ("giraffes").
Weber, M. 1904 A, 682.
Weber and Abel 1928 A, 426, 538, 595.
Woodward, A. S. 1898 B, 368.
Zittel, K. A. 1893 B, 407 (Giraffinæ).
Zittel and Schlosser 1911 A, 495.
 1923 A, 585 (Giraffinæ).

GIRAFFA Brisson. Type *G. giraffa* Brisson (= *Cervus camelopardalis* Linnæus).

Brisson, M. J. 1762, Regn. animale, etc., 2d ed., 12, 37-38.
Abel, O. 1914 A, 181 (Camelopardalis).
Altmann, F. 1925 A, 109 (Camelopardalis).
Atzkern, J. 1923 A, 126 ("giraffe").
Black, D. 1915 A, 329, figs. 1-3.
Bohlin, B. 1927 A, 130, pls. xi, xii.
Bonsdorff, E. J. 1871 A, 318 (Camelopardalis).
Carus and Engelmann 1861 A, 1717 (Camelopardalis).
Doran, A. H. G. 1878 A, 429, pl. lxi.
Falconer, H. 1845 A, 362, pl. xiv (Camelopardalis).
 1868 A, 197, 398, 543, pl., xvi (Camelopardalis).
Flower and Lydekker 1891 A, 331, fig. 136.
Gaudry, A. 1867 A, 245, pl. xl (Camelopardalis).
Knottnerus-Meyer, T. 1907 A, 35.
Loomis, F. B. 1925 E, 598, figs. 13, 14.
 1928 B, 537, figs. 7, 8 (Camelopardalis, Giraffa).
Lydekker, R. 1882 B, 100, 102, pl. xvi (Camelopardalis).
 1885 C, 71.
Major, C. J. F. 1891 A, 316.
 1901 B, 242.
Matsumoto, H. 1926 C, 17.
Matthew, W. D. 1925 D, 37, 39, fig. 20.
Meckel, J. F. 1823 A, 12 ("giraffen").
Nopcsa, F. 1926 A, 645 ("giraffine").
Osborn, H. F. 1925 F, 961 ("giraffe").
Owen, R. 1842 G, 217, pls. xl-xliv ("giraffe").
 1866 B, 463, 475, figs. 310, 325, 326 (Camelopardalis).
Palmer, T. S. 1904 A, 295, 926.
Pilgrim, G. E. 1911 A, 6.
Reynolds, S. H. 1897 A, 359, 445, 501, 507 ("giraffe").
Schlosser, M. 1903 I, 97 (Camelopardalis).
Taschenberg, O. 1899 A, 4583.
Trouessart, E. L. 1898 A, 962.
Weber, M. 1904 A, 22, 683, fig. 19.
Weber and Abel 1928 A, 596, 597, fig. 390.
Weithofer, A. 1888 A, 281, pl. xvi (Camelopardalis).
Winton, W. E. de 1897 A, 273-283, figs. 1-4.
Woodward, A. S. 1898 B, 369.
Wright, R. R. 1883 A, 312 (Camelopardalis).
Zittel, K. A. 1893 B, 408 (Camelopardalis).
Zittel and Schlosser 1911 A, 496 (Camelopardalis).
 1923 A, 585, 676, 677 (Camelopardalis).

Giraffa nebrascensis Matthew.

Matthew, W. D. 1925 D, 35, figs. 14, 15.
 Pleistocene (Loess); Nebraska.

ANTILOCAPRIDÆ Gray.

Gray, J. E. 1866 C, 326.
Hay, O. P. 1902 A, 686.
Abel, O. 1913 B, 729, 745.
 1914 A, 121, 181 (Antilocaprinæ).
 1919 A, 815.
Arldt, T. 1907 D, 247, 321.
 1912 A, 700, 746.
Beddard, F. E. 1902 A, 306.
Caton, J. D. 1877 A (Antilocaprinæ).
Chandler, A. C. 1914 B, 134 (Antilocaprinæ).
Elliot, D. G. 1901 A, 43.
Furlong, E. L. 1927 A, 148-176.
Gill, T. 1885 B, 18.
Grant, M. 1904 B, 203.
Hay, O. P. 1914 A, 283 (Antilocaprinæ).
Knottnerus-Meyer, T. 1907 A, 115 (Antilocaprinæ).
Lydekker, R. 1907 B, 46.
 1913 B, 5.
 1914 B,. 229.
Lyon, M. W. 1908 A, 398 (Antilocaprinæ).
 1908 B, 693 (Antilocaprinæ).
Matthew, W. D. 1901 B, 442.
 1908 A, 561.
 1909 C, 114, 115, 118, 120.
 1915 K, 457 ("antilocaprids").
 1918 A, 22.
 1924 C, 198, 202.
 1926 B, 6, 7.
Matthew and Cook 1909 A, 367 (Antilocaprinæ).
Miller, G. S. 1912 B, 393.
Nitsche, H. 1898 A, 81.
Osborn, H. F. 1905 I, 107.

Osborn, H. F. 1909 D, 77, 86.
1910 B, 357, 553.
Palacký, J. 1903 B, 313 ("antilocapriden").
Scharff, R. F. 1911 A, 113.
Schwarz, E. 1924 A, 420 ("prongbucks").
Sclater, P. L. 1866 A, 403.
Scott, W. B. 1913 A, 362, 416.
Seton, E. T. 1909 A, 210.
Skinner, M. P. 1922 A, 82.
Trouessart, E. L. 1905 A, 711 (Antilocapridæ); 712 (Antilocaprinæ).
Wallace, A. R. 1876 A, II, 223 (Antilocaprinæ).
1894 A, 435.
Weber, M. 1904 A, 681.
Weber and Abel 1928 A, 590 (Antilocaprinæ).
Zittel and Schlosser 1911 A, 496.
1923 A, 586, 602.

ANTILOCAPRA Ord. Type *A. americana* Ord.

Ord, G. 1818, Jour. Physique, LXXXVII, 149.
Hay, O. P. 1902 A, 686.
Allen, J. A. 1892 A.
Arldt, T. 1907 D, 256.
Beddard, F. E. 1902 A, 307.
Boas, J. E. V. 1914 B, 594.
1917 A, 3, pl. i, figs. 5-7; pl. ii; text-figs. 1-4.
Carus, V. 1875 A, 153.
Caton, J. D. 1877 A, figures.
Chandler, A. C. 1916 A, 112.
Doran, A. H. G. 1878 A, 424, pl. lxi.
Douglas, E. 1909 A, 470, 475.
Elliot, D. G. 1901 A, 43.
Fryxell, F. M. 1926 A, 333.
Gadow, H. 1902 A, 207, 213.
Gidley, J. W. 1912 C, 19.
Grant, M. 1904 B, 202, 203, 205.
Gray, J. E. 1866 C, 323.
Gregory, W. K. 1912 F, 288.
Haug, E. 1911 A, 1886.
Hay, O. P. 1914 A, 284.
1923 A, 337.
1925 D, 245.
Hilzheimer, M. 1922 A, 745.
Howes, G. B. 1902 A, 523.
Hrdlička, A. 1903 A, 377.
1920 A, 464.
Kampfen, P. N. 1905 A, 605.
Knottnerus-Meyer, T. 1907 A, 115, pl. iii, fig. 18.
Leunis and Ludwig 1883 A, 253.
Loomis, F. B. 1925 E, 600, figs. 15, 16.
1928 B, 542.
Lull, R. S. 1904 C, 8.
1920 A, 88.
1921 B, 165.
Lydekker, R. 1914 B, 230.
Lyon, M. W. 1908 B, 693.
Matthew, W. D. 1902 F, 318.
1904 A, 105, 116, 119.
1915 A, 250.
1915 K, 403.
1918 A, 221.
1924 C, 200, 206.
1924 E, 748.
1926 B, 6.
Merriam, C. H. 1892 A, 61.
Merriam, J. C. 1911 B, 288.
Miller, G. S. 1912 B, 393.
1924 C, 493.
Murie, J. 1871 B, 440.
Nitsche, H. 1898 A, 71, 80.
Osborn, H. F. 1905 I, 110.
1909 D, 85-87.
1910 B, 454, 456, 460, 553.
Palmer, T. S. 1904 A, 109, 914.
Parks, W. A. 1925 C, 432.
Reynolds, S. H. 1897 A, 417.
Schlosser, M. 1903 I, 169, 173.
1904 C, 98.
1906 A, 169, 173.
Schmidt, O. 1886 A, 161.
Sclater, P. L. 1866 A, 403.
1875 A, 219.
Scott, W. B. 1913 A, 225, 675.
Seton, E. T. 1909 A, 209.
Skinner, M. P. 1922 A, 82.
Taschenberg, O. 1899 A, 4463.
Trouessart, E. L. 1905 A, 713.
Weber, M. 1904 A, 21, 681, fig. 18.
Weber and Abel 1928 A, 591.
Wherry, G. 1902 A, 973.
Winge, H. 1906 A, 118 (Dicranoceros).
Wright, R. R. 1883 A, 333.
Zittel and Schlosser 1911 A, 496.
1923 A, 587, 680-682.

Antilocapra americana Ord.

Ord, G. 1815, Guthries' Geog., 2d Amer. ed., II, 292 (Antilope).
Hay, O. P. 1902 A, 686.
Baker, F. C. 1920 A, 454.
Beddard, F. E. 1902 A, 306.
Brown, A. E. 1904 B, 70 ("prong-horn").
Buwalda, J. P. 1914 A, 451 ("antelope"; This species?).
Chandler, A. C. 1914 A, 155 ("Antilocapra").
Doran, A. H. G. 1878 A, 424, pl. lxi.
Elliot, D. G. 1901 A, 43, pl. xvi.
Forbes, W. A. 1880 A, 127, figs. 1-3.
Frech, F. 1907 A, 315.
Furlong, E. L. 1927 A, 148-175, text-figs. 1-15, 18, 20-28.
Gervais, P. 1859 A, 365.
1875 A, 49, pl. D.
Gibbs, M. 1898 A, 198.
Giebel, C. G. 1878 D, 856 (A. americana, A. furcifer).
Gray, J. E. 1866 C, 323.
Hay, O. P. 1914 A, 26, 38, 284, pl. xxxiii, figs. 5, 6; pl. xxxiv, fig. 3.
1921 A, 626.
1923 A, 9, 343.
1927 B, 61.
1927 D, 301 (Antilocapra).
1928 C, 425 (This species?).
Lobley, J. L. 1908 A, 195.
Lull, R. S. 1920 A, 89, figs. 5, 9-25.
Lydekker, R. 1907 B, 46, fig. 33.
1914 B, 230, fig. 37.
Lyon, M. W. 1908 A, 393, 397.
Matschie, P. 1896 A, 252 ("gabelgemse").

Matthew, W. D. 1902 E, 318 (A. americana?); 320 ("Antilocapra").
1904 A, 104.
1918 A, 227.
Merriam, J. C. 1911 B, fig. 77.
1914 B, 201 ("antelope").
1918 D, 520 ("Antilocapra").
Merriam and Stock 1925 A, 11 (This species?).
Miller, G. S. 1912 B, 393.
1924 C, 493.
Murie, J. 1870 A, 334, figs. 1-9.
Nitsche, H. 1898 A, 71, pl. xi, figs. 8-11.
Osborn, H. F. 1910 B, 438, 454.
Owen, R. 1866 B, 473.
1868 A, 625.
Palacký, J. 1903 B, 330.
Savage, J. 1878 A, 10 ("antelope").
Scharff, R. F. 1911 A, 112.
Schlosser, M. 1903 I, 169, fig. 32.
Sclater, P. L. 1866 A, 401.
Scott, W. B. 1913 A, 162, 202, 416, 417, fig. 74.
Seton, E. T. 1906 D, 33-49, figs.
1909 A, 209, pls. xiv-xxi; text-figs. 93-99; map 9.
Skinner, M. P. 1922 A, 82, pls. vi-ix.
Taylor, W. P. 1911 A, 191.
Wright, R. R. 1883 A, 333, fig. 160.
Wyman, L. E. 1922 A, 29.

Recent; Mexico to California and British America: Pleistocene; Illinois, Oregon, California, Nebraska?

Antilocapra sp. indet.

Freudenberg, W. 1921 A, 139 (A. sp. nov.). Pleistocene; Mexico.
1922 A, 5, 28. Pleistocene; Mexico.
Frick, C. 1921 A, 300, figs. 13, 17, 18 (This genus?). Pleistocene (Bautista); California; 379, figs. 97-101 (This genus?): Pliocene (Eden); California.
Hay, O. P. 1927 D, 301 (Antilocapra); 162 (Antilocapra? or Neotragus?). Pleistocene; California, Oregon.
McCornack, E. C. 1920 A, 17, 23 ("antelope"). Pleistocene (Fossil Lake); Oregon.
Merriam and Stock 1921 A, 567 (This genus?). Pleistocene (Early); California.
1925 A, 11 (This genus?). Pleistocene (McKittrick); California.
Miller, L. H. 1912 A, 81. Pleistocene (Fossil Lake); Oregon.
Osborn, H. F. 1925 D, 541 ("Antilocapra"). Pleistocene (La Brea); California.
Parks, W. A. 1924 A, 38 (This genus?). Pleistocene (Late); Saskatchewan.
1925 A, 226 ("antilocaprid"). Post-glacial; Saskatchewan.
Stock, C. 1925 A, 21 (This genus?). Lower Pliocene (Eden): Pleistocene (Bautista); California: (Christmas Lake); Oregon.

ALETOMERYX Lull. Type *A. gracilis* Lull.

Lull, R. S. 1920 A, 85.
Loomis, F. B. 1928 B, 539.
Matthew, W. D. 1924 C, 198.
1926 B, 3, 6.
Weber and Abel 1928 A, 603, 606.

Aletomeryx gracilis Lull.

Lull, R. S. 1920 A, 85, pl. i; text-figs. 1, 2, 4-25.
Matthew, W. D. 1924 C, 193.
O'Harra, C. C. 1920 A, 159.

Upper Miocene or Lower Pliocene; Nebraska.

TETRAMERYX Lull. Type *T. shuleri* Lull.

Lull, R. S. 1921 B, 163.
Matthew, W. D. 1926 B, 6.

Tetrameryx shuleri Lull.

Lull, R. S. 1921 B, 163, figs. 2, 3.
Furlong, E. L. 1927 A, 149, 157 (T. schuleri).
Hay, O. P. 1924 D, 384.
Shuler, E. W. 1923 A, 333 ("four-horned antelope").

Pleistocene (Early); Texas.

NEOMERYX Parks. Type *N. finni* Parks.

Parks, W. A. 1925 C, 432.

Neomeryx finni Parks.

Parks, W. A. 1925 C, 432, pl. x.
Hay, O. P. 1927 D, 284.

Late Pleistocene or early Recent; Saskatchewan.

BOVIDÆ Gray.

Gray, J. E. 1821 A, 308.
Hay, O. P. 1902 A, 686.
Abel, O. 1909 D, (222) ("boviden").
1913 B, 729, 746 (Boödontia).
1921 A, ("rinder").
Ahrens, H. 1912 B, 49 ("rind").
Anderson, R. J. 1902 C, 785 ("oxen").
1912 D, 253.
Arldt, T. 1907 D, 202, 255 (Cavicornia); 641 (Bovidæ).
Atzkern, J. 1923 A, 125 ("cavicornier").
Baird, S. F. 1876 A, ccviii ("oxen").

Baum, H. 1920 A, 19, figs. 1, 2, 6, 9 ("rind").
Baur, G. 1886 N, 118 ("pecoriden").
Beddard, F. E. 1902 A, 307.
Behlen, H. 1906 A, 187 (Cavicornia); 191 ("boviden").
Bertelli, D. 1909 A, 166, fig. 17 (Bos).
Black, D. 1915 A, 348.
Blanford, W. T. 1901 A, 298.
Boas, J. E. V. 1890 B, 530, 2 figs. ("rind").
1917 A, 3.
Bonaparte, C. L. 1832 A, 291 (Cavicornia).
Boule, M. 1923 A, 45, 54 ("ox").
Broom, R. 1926 A, 260, fig. 3 (Bos).
Carnot, A. 1892 A, 1190 ("boeuf").
Carus, V. 1875 A, 149 (Bovina).
Carus and Engelmann 1861 A, 1715.
Case, E. C. 1889 B, 175 (Cavicornia).
Chandler, A. C. 1914 B, 134.
Chomenko, J. 1913 A, 141 (Cavicornia).
Cope, E. D. 1891 N, 87.
Cuvier, F. 1825 A, 231 ("boeufs").
Doran, A. H. G. 1878 A, 425.
Duerst, J. U. 1902 A, 197 ("cavicornes"); 202 ("bovidés").
1902 B, 1 (Cavicornia).
1903 A, 360 (Cavicornia).
1903 B, 342 ("cavicornes").
Eichwald, E. 1835 A, 686 ("boves").
Eimer, G. H. J. 1901 A, 131 (Cavicornia).
Elliot, D. G. 1901 A, 44.
Engelmann, O. 1910 A, 486 ("rind").
Flower, W. H. 1892 A, 43.
Frassetto, F. 1903 A, 184, 340.
Froriep, A. 1886 A, 72, pls. i-iii; text-figs. 1-8 ("rind").
Gadow, H. 1902 A, 206.
1913 A, 132 ("cattle").
Gervais, P. 1852 A, 69 (Bos).
1859 A, 130 ("bovidés").
Giebel, C. G. 1883 A ("bovinen").
Goodman, N. 1868 A, 109 ("cow").
Goodsir, J. 1868 A, 53 ("ruminants").
Grant, M. 1904 B, 196, 205.
Gray, J. E. 1825 B, 342.
Gregory, W. K. 1910 A, 70, 345 (Cavicornia).
1920 A, 193 (Pecora).
Haeckel, E. 1873 A, 554 (Cavicornia).
Haller, G. 1922 A (Capra, Bos).
Hasse, G. 1911 B, 311 ("bovidés").
Hasse and Schwarck 1870 A, 130 (Bos).
Hay, O. P. 1912 D, 632.
1914 A, 282.
Hoernes, R. 1886 A, 679 (Cavicornia).
Huxley, T. H. 1855 B, 130 ("calf").
1856 A, 46 ("oxen").
1870 F, 537.
Jackson, J. W. 1915 A, 293.
Kampfen, P. N. 1905 A, 604.
Knottnerus-Meyer, T. 1907 A, 85, 101.
1910 A, 589.
1911 A, 14 ("rinder").
Kowalewsky, W. 1877 A, 148 (Bovina).
Kowarzik, R. 1911 A, 107.
Krukenberg, A. 1849 A, 413 ("ochsen").
La Baume, W. 1909 A.
Laloy, L. 1907 A, 586 ("cavicornes").
Lankester, E. R. 1907 A, 108.
Lankester, E. R. 1908 A, 324 ("bovines").
Leche, W. 1887 A (Cavicornia).
Ledouble, A. F. 1906 A, 548 ("bovidés").
Leunis and Ludwig 1883 A, 244 (Bovina).
Lobley, J. L. 1908 A, 195, 200, 213.
Loomis, F. B. 1925 E, 585 ("bovids").
Lull, R. S. 1904 C, 8.
Lydekker, R. 1907 B, 13.
1910 C, 12.
1913 B, 4, 9.
Lyon, M. W. 1908 A, 397.
Mackenzie, W. 1911 A, 363.
Major, C. J. F. 1880 A, 23 ("boviden").
Marchlewski, T. 1926 A, 95 ("cattle").
Matthew, W. D. 1904 A, 102.
1908 A, 559, 561.
1915 A, 187, 248, 254, figs. 24, 27.
1915 K, 457, fig. 17 ("cattle").
1918 A, 221.
1925 D, 34, 35.
Meckel, J. F. 1825 A ("ochsen").
Miller, G. S. 1912 A, 986.
1912 B, 394.
1924 C, 494.
Murie, J. 1871 B, 440, 446.
Nitsche, H. 1898 A, 68, 80 ("boviden").
Nopcsa, F. 1923 H, 177 ("cavicornier").
1926 A, 644 (Cavicornia).
Osborn, H. F. 1909 D, 122.
1912 L, 179, fig. 2 ("cattle").
Owen, R. 1845 B, 528.
1848 B, pl. ii, fig. 18.
1868 A, 867.
Palacký, J. 1903 B, 313 ("boviden").
Pander and Alton 1823 A, 7 ("ochsen").
Paulli, S. 1899 A, 161, fig. 7 ("kalb").
1900 A, 227, pls. xiii, xiv; text-figs. 38-40 (Bos).
Pavlow, M. 1906 B, 52.
Perna, G. 1906 A, 131, pl. vi, fig. 20 (Bos).
Petersen, G. 1921 A, 291 ("rind").
Pfeiffer, H. 1854 A, 9 ("wiederkäuer").
Pilgrim, G. E. 1913 A, 302.
Popowa, N. 1913 A, 279 ("rind").
Pouchet and Chabry 1884 A, 160 ("veau").
Puccioni, N. 1908 A, 49.
Rehs, J. 1914 A, 49.
Reid, G. A. 1898 A, 359.
Retterer and Lelièvre 1912 A, 371 ("boeufs").
Retzius, A. 1837 A, 488, pl. xxi, fig. 6 ("ochsen").
Reynolds, S. H. 1897 A, 468, 507, 523.
Rhumbler, L. 1914 A, 154 ("rinder").
Robin and Herrmann 1882 A, 251 ("boeufs").
Rutland, J. 1901 A, 21033 ("hollow-horned Herbivora").
Rutten, L. M. R. 1909 A, 72.
Schlosser, M. 1899 T, 454 ("boviden").
1903 I, 187, 212 ("Cavicornia").
1904 C, 93, 98 (Bovidæ); 95 ("cavicornier").
Schwarz, E. 1924 A, 421 ("cattle").
Sclater, P. L. 1866 A, 403.
Scott, W. B. 1913 A, 362, 418 (Bovidæ); 416, 678 (Cavicornia).
Serres, M. 1860 A, 301 ("boeufs").
Seton, E. T. 1909 A, 247.
Sisson, S. 1910 A, 112, figs. 88-104 ("ox").

Steinmann, G. 1907 A, 498.
Stromer, E. 1912 A, 202 (Cavicornia).
Taschenberg, O. 1899 A, 4465 (Antilopidæ); 4476 (Bovidæ).
Terra, P. 1911 A, 327.
Tims, H. W. M. 1903 A, 143.
Tornier, G. 1888 A, 292 ("boviden").
1908 A, 195 ("wiederkäuer").
Tourneux, F. and J. P. 1912 A, 66, figs. 1-3 ("veau").
Van Bemmelen, J. F. 571 ("cattle").
Wallace, A. R. 1894 A, 436.
1876 A, II, 221.
Weber, M. 1904 A, 409, 421, 643, 672.
Weber and Abel 1928 A, 426, 538, 581.
Wherry, G. 1902 A, 973.
Wilhelm, J. 1924 A, 1, figs. 1-7 ("rind").
Wilkie, H. C. 1926 A, 819.
Williston, S. W. 1910 G, 595.
Windle, B. C. A. 1905 A, 1055 ("wiederkäuer").
Winge, H. 1906 A, 70, 108, 126 (Bovini).
Wright, R. R. 1883 A, 313.
Woodward, A. S. 1923 C, 47.
Zaaijer, T. 1894 A, 339.
Zondek, M. 1895 A, 502 ("kuh").
Zittel and Schlosser 1911 A, 497 (Cavicornia).
1923 A, 559, 602 (Cavicornia).

ANTILOPINÆ Baird.

Hay, O. P. 1902 A, 687.
Abel, O. 1913 B, 729, 745 (Ægodontia).
1921 A, 181, 252 ("antilopen").
Arldt, T. 1907 D, 638.
1912 A, 746 (Ilingoceratinæ).
Bonaparte, C. L. 1832 A, 291 (Antilopina).
Carus, V. 1875 A, 151 (Antilopina).
Depéret, C. 1912 A, 709 ("antilopidés").
Dürst, J. U. 1902 B, 38 (Antilopina).
Frech, F. 1906 A, 497 ("antilopen").
Giebel, C. G. 1883 A ("antilopen").
Gill, T. 1872 B, 9, 77.
Hoernes, R. 1886 A, 679.
Hrdlička, A. 1903 A, 377 (Antilopidæ).
Kowalewsky, W. 1877 A, 148 (Antilopina).
Laloy, L. 1907 A, 586 ("antilopes").
Leunis and Ludwig 1883 A, 252 (Antilopina).
Loomis, F. B. 1925 E, 593, 600 ("antelopes").
Lydekker, R. 1907 E, 673 ("antelopes").
1914 B, 21.
Matthew, W. D. 1915 A, 187, 248, 254, fig. 24.
1915 K, 457, fig. 17 ("antelopes").
Meckel, J. F. 1825 A ("antilopen").
Merriam, J. C. 1910 C, 50 ("antelopes").
Osborn, H. F. 1917 B, 225, 266, 292 ("antelopes").
Owen, R. 1845 B, 528 (Antilopidæ).
1868 A, 861 (Antilopidæ).
Pander and Alton 1823 A, 9 ("antilopen").
Pictet, F. J. 1853 A, 359 ("antilopidés").
Rhumbler, L. 1914 A, 154 ("antilopen").
Roger, O. 1896 A, 239.
Schlosser, M. 1903 I, 126, 161 (Antilopidæ).
1904 C, 88, 98, 111.
1906 A, 127, 161, 170 ("antelopes").
Scott, W. B. 1913 A, 416 (Antilopidæ).
Van Bemmelen, J. F. 1918 A, 571 ("antilopes").
Vicq-d'Azyr, F. 1792 A, cix (Curvicornes).
Weber, M. 1904 A, 676.
Weber and Abel 1928 A, 585.
Wherry, G. 1901 A, 252, 348 ("antelopes").
1902 A, 973 ("antelopes").
Woodward, H. 1904 B, 162 (Antilopidæ).
Zaaijer, T. 1894 A, 339 (Antilopidæ).

NEOTRAGOCERUS Matthew and Cook. Type *N. improvisus* Matthew and Cook.

Matthew and Cook 1909 A, 413.
Abel, O. 1914 A, 184.
Arldt, T. 1911 A, 214.
Joleaud, L. 1919 A, 712.
1919 C, 311.
Matthew, W. D. 1924 C, 70 (Neotragoceras); 206 (Neotragocerus).
Merriam, J. C. 1919 A, 532.
Osborn, H. F. 1910 B, 337, 353, 354, 355, 553.
1912 G, 250.
1918 A, 33.
Peterson, O. A. 1912 B, 167.
Scott, W. B. 1913 A, 362.
Taylor, W. P. 1911 A, 196.
Zittel and Schlosser 1911 A, 503.
1923 A, 593.

Neotragocerus improvisus Matthew and Cook.

Matthew and Cook 1909 A, 413, figs. 26, 27?.
Cook, H. J. 1912 D, 45 (Neotragocerus).
1922 B, 15 (Neotragoceras).
Gidley, J. W. 1913 D, 3.
Matthew, W. D. 1918 A, 187, 222.
1923 A, 12.
1924 C, 68.
Merriam, J. C. 1917 A, 437.
1918 A, 526.
Scharff, R. F. 1911 A, 407 ("antelope").
Sinclair, W. J. 1915 A, 77, 94.
Taylor, W. P. 1911 A, 192.

Lower Pliocene (Lower Snake Creek); Nebraska.

Neotragocerus lindgreni Merriam.

Merriam, J. C. 1918 A, 526, fig. 2.
Hay, O. P. 1927 D, 267, 268.
Merriam, J. C. 1917 A, 432, 433 ("Tragocerus?").

Pleistocene (Idaho); Idaho.

TAUROTRAGUS Wagner. Type *Antilope oreas* Pallas = *A. oryx* Pallas.

Wagner, J. A. 1855, suppl. Schreber's Säugethiere, v, 438.
Beddard, F. E. 1902 A, 316.
Camerano, L. 1915 B, 6, pl. iii, figs. 1-4.
Carruccio, A. 1913 A, 77.
Flower and Lydekker 1891 A, 348 (Oreas).
Foote, J. S. 1916 A, 107.
Gidley, J. W. 1913 D, 2.

Joleaud, L. 1919 A, 711, fig. 9 (Oreas).
Knottnerus-Meyer, T. 1907 A, 138.
Leche, W. 1921 A, 68 (Oreas).
Lydekker, R. 1907 B, 34.
1914 A, 631.
1914 B, 207.
Osborn, H. F. 1910 B, 328, 432, 554 (Oreas).
Palmer, T. S. 1904 A, 665, 920.
Schlosser, M. 1903 I, 150, 152, 168, fig. 28.
1904 C, 80, 91.
Sclater and Thomas 1900, Book of Antilopes, IV, 193.
Scott, W. B. 1913 A, 202.
1916 A, 118 ("eland").
Trouessart, E. L. 1905 A, 733.
Weber and Abel 1928 A, 586, 587.
Winge, H. 1906 A, 119 (Oreas).

Taurotragus americanus Gidley.

Gidley, J. W. 1913 D, 1, pl. i, fig. 2.
1913 B, 96.
1913 G, 50 ("eland").
1914 B, 18 ("eland").
1920 B, 283 ("antelope").
Hay, O. P. 1918 D, 461 ("eland").
1920 B, 113, pl. v, figs. 7-11.
1923 A, 497.
1924 D, 263, 264.
1928 C, 429.
Leighton, M. M. 1921 A, 513.
Lydekker, R. 1914 A, 631.
1914 B, 208.
Matchie, P. 1913 A, 258.
Matthew, W. D. 1925 D, 34 ("eland").
Pleistocene (Middle); Maryland; Illinois, Missouri.

ILINGOCEROS Merriam, J. C. Type *I. alexandræ* Merriam.

Merriam, J. C. 1909 B, 319.
Chandler, A. C. 1916 A, 119.
Cook, H. J. 1922 B, 15.
Furlong, E. L. 1927 A, 174.
Haug, E. 1911 A, 1705 (Iliagoceros).
Hay, O. P. 1923 A, 15.
Joleaud, L. 1919 A, 711, fig. 9.
Lydekker, R. 1910 F, 660.
1914 B, 229.
Matthew, W. D. 1918 A, 219.
1926 B, 6.
Merriam, J. C. 1915 E, 233.
1917 A.
1919 A, 452.
Merriam and Stock 1928 A, 21.
Merriam, Stock, Moody 1925 A, 59.
Osborn, H. F. 1910 B, 338, 357, 554.
1912 G, 250.
1918 A, 24, 30, 33.
Peterson, O. A. 1912 B, 167.
Scott, W. B. 1913 A, 362.
Taylor, W. P. 1911 A, 196.
Zittel and Schlosser 1911 A, 504 (Illingoceras).
1923 A, 595, 680 (Ilingoceras).

Ilingoceros alexandræ Merriam.

Merriam, J. C. 1909 B, 320, figs. 1-6.
Gidley, J. W. 1913 D, 3.
Merriam, J. C. 1911 B, 211, 213, 214, 299, figs. 78, 79.
1917 A, 429.
Parks, W. A. 1925 C, 432 (Ilingoceras).
Pliocene (Thousand Creek); Nevada.

Ilingoceros schizoceras Merriam.

Merriam, J. C. 1911 B, 211, 213, 214, 292; figs. 73-76.
1917 A, 429.
Pliocene (Thousand Creek); Nevada.

Ilingoceros sp. indet.

Merriam, J. C. 1911 B, 301, fig. 80 (Form B?); Pliocene (Thousand Creek); Nevada.
1917 A, 428 (This genus?).
Merriam, Stock, Moody 1925 A, 59 (This genus or Sphenophalos). Pliocene (Rattlesnake); Oregon.
Stock, C. 1925 A, 21 (This genus?). Lower Pliocene (Rattlesnake); Oregon: (Eden); California.

TRAGOCERUS Gaudry. Type *T. amalthæus* Gaudry.

Gaudry, A. 1861 C, C. R. Acad. Sci. Paris, LII, 297-298.
Flower and Lydekker 1891 A, 349 (Tragoceros).
Gaudry, A. 1896 A, 185, fig. 181.
Hay, O. P. 1923 A, 8.
Matthew and Cook 1909 B, 197.
Merriam, J. C. 1917 A, 437.
Palmer, T. S. 1904 A, 684, 920.

Tragocerus? sp. indet.

Merriam, J. C. 1911 B, 303 (Tragoceras? or Ilingoceros). Pliocene (Thousand Creek beds); Nevada.

SPHENOPHALOS Merriam. Type *S. nevadanus* Merriam.

Merriam, J. C. 1909 B, 325.
Cook, H. J. 1922 B, 15.
Furlong, E. L. 1927 A, 174.
Haug, E. 1911 A, 1705.
Lydekker, R. 1910 F, 660.
1914 B, 229.
Matthew, W. D. 1918 A, 219.
Matthew, W. D. 1926 B, 6.
Merriam, J. C. 1911 B, 221, 291, 298.
1919 A.
Merriam, Stock, Moody 1916 A, 89.
1925 A, 59.
Osborn, H. F. 1910 B, 338, 357, 554.
1912 G, 250.

Osborn, H. F. 1918 A, 24, 33.
Peterson, O. A. 1912 B, 167.
Taylor, W. P. 1911 A, 196.

Sphenophalos nevadanus Merriam.

Merriam, J. C. 1909 B, 325, fig. 7.
Cook, H. J. 1922 B, 13.
Gidley, J. W. 1913 D, 3.
Merriam, J. C. 1911 B, 211, 213, 214, 285, figs. 67, 70, 72.
1917 A, 428, 429.
Merriam and Stock 1928 A, 20, text-figs. 13, 14.
Parks, W. A. 1925 C, 432.
Stock, C. 1925 A, 18 (This species?).
Pliocene (Thousand Creek); Nevada: (Rattlesnake); Oregon.

Sphenophalos sp. indet.

Merriam, J. C. 1911 B, figs. 68, 69, 71 (Sphenophalos, Ilingoceros).
1917 A, 425 (This genus?). Orinda; California.
Merriam, Stock, Moody 1925 A, 59, 90, figs. 44, 45 (May be Ilingoceros). Pliocene (Rattlesnake); Oregon.
Stock, C. 1925 A, 20 (This genus?). Lower Pliocene (Pinole-Orinda-Siesta); California.

CRANIOCERAS Matthew. Type *C. unicornis* Matthew.

Matthew, W. D. 1918 A, 223.
Cook, H. J. 1922 B, 15.
Matthew, W. D. 1924 C, 70, 206.

Cranioceras unicornis Matthew.

Matthew, W. D. 1918 A, 187, 223, figs. 19, 20.
1924 C, 68.
Upper Miocene (Lower Snake Creek); Nebraska.

RUPICAPRINÆ.

Arldt, T. 1912 A, 744 (Nemorrhedinæ).
Flower and Lydekker 1891 A, 349 ("rupicaprine section").
Knottnerus-Meyer, T. 1907 A, 48, 99, 123 (Nemorrhædidæ).
Lydekker, R. 1913 B, 178.
Osborn, H. F. 1910 B, 554.
Schlosser, M. 1903 I.
Trouessart, E. L. 1905 A, 734.
Weber and Abel 1928 A, 587.
Zittel and Schlosser 1911 A, 500.
1923 A, 590.

NÆMORHEDUS H. Smith. Species *Antilope sumatrensis* Shaw and *A. goral* Hardwicke.

Hay, O. P. 1902 A, 687 (Nemorhœdus).
Beddard, F. E. 1902 A, 308, 326 (Nemorrhædus).
Brown, A. E. 1904 B, 75 (Nemorhædus).
Camerano, L. 1916 B, 10, pl. vii, fig. 7 (Nemorhedus).
Grant, M. 1904 B, 198 (Nemorhædus).
Kampfen, P. N. 1905 A, 605 (Nemorrhædus).
Knottnerus-Meyer, T. 1907 A, 48, 99, 124, pl. iv, fig. 29 (Nemorrhædus).
Leunis and Ludwig 1883 A, 254 (Nemorhedus).
Lucas, F. A. 1901 A, 307 (Nemorhedus).
Lydekker, R. 1907 B, 29 (Nemorhœdus).
1909 A, 940 (Nemorhædus).
1913 B, 202 (Nemorhædus).
Palmer, T. S. 1904 A, 446, 918.
Pocock, R. L. 1908 A, 183.
Pocock, R. L. 1908 B, 173.
Scharff, R. F. 1911 A, 83, 106 (Nemorrhædus).
Schlosser, M. 1903 I, 169, fig. 31 (Nemorhædus).
1904 C, 98 (Nemorrhædus).
Trouessart, E. L. 1905 A, 734 (Nemorrhædus).
Weber, M. 1904 A, 675 (Nemorhœdus).
Weber and Abel 1928 A, 587 (Nemorhædus).
Winge, H. 1906 A, 123 (Nemorhœdus).
Zittel and Schlosser 1911 A, 500 (Nemorrhædus).
1923 A, 591 (Nemorhædus).

Næmorhedus palmeri Cragin.

Hay, O. P. 1902 A, 687 (Nemorhœdus).
Cragin, F. W. 1900 B, 219.
Hay, O. P. 1924 D, 144, 273, 275.
Pleistocene; Colorado.

OREAMNOS Rafinesque. Type *Mazama dorsata* Rafinesque.

Rafinesque, C. S. 1817, Amer. Monthly Mag., II, 44.
Adams, C. C. 1905 A, 60.
Allen, J. A. 1892 A (Mazama).
Arldt, T. 1907 D, 202 (Haploceros).
Diener, C. 1912 A, 218.
Elliot, D. G. 1901 A, 44 (Oreamnus).
Frech, F. 1906 A, 484.
Furlong, E. L. 1905 A, 166 (Aplocerus).
Gidley, J. W. 1912 C, 20.
Grant, M. 1904 B, 198.
1905 A, 233, 236, figs.
Heilprin, A. 1887 A, 377 (Aplocerus).
Knottnerus-Meyer, T. 1907 A, 76, 140, pl. v, fig. 35 (Oreamnus).
Leunis and Ludwig 1883 A, 254 (Haplocerus).
Loomis, F. B. 1925 E, 591, 592, 593, 600, figs. 4, 6, 15, 16 (Oreamus).
Lydekker, R. 1913 B, 217.
Merriam, C. H. 1892 A, 61 (Mazama).
Miller, G. S. 1912 B, 397.
1924 C, 498.
Osborn, H. F. 1905 I, 110.
1909 D, 87, 89 (Haploceras).
1910 B, 635.
Palmer, T. S. 1904 A, 478, 918.
Scharff, R. F. 1911 A, 106.
Sinclair, W. J. 1905 B, 150 (Aplocerus).
Sinclair and Furlong 1904 A, 416 (Haplocerus).
Stock and Furlong 1927 A, 423.

Trouessart, E. L. 1905 A, 735.
Weber and Abel 1928 A, 587.
Wright, R. R. 1883 A, 343 (Haplocerus).
Zittel and Schlosser 1911 A, 501 (Haploceros).
1923 A, 591.

Oreamnos americanus (Blainville).

Blainville, H. M. D. 1816, Bull. Soc. Philomath. Paris, 80 (Rupicapra).
Baird, S. F. 1857 A, 671 (Aplocerus montanus).
Brown, A. E. 1904 B, 75 (O. montanus).
Diller, J. S. 1906 A, 11 (Haplocerus).
Elliot, D. G. 1901 A, 44, pls. xvii-xx (O. montanus).
Goddard, P. E. 1927 A, 68 ("mountain goat").
Grant, M. 1904 B, 198 (O. montanus).
Haug, E. 1911 A, 1873, 1887 (Ovis montanus).
Hay, O. P. 1927 D, 215.
Lobley, J. L. 1908 A, 195 (Haploceros montanus).
Lydekker, R. 1898 D, 4 ("rocky-mountain goat").
1907 B, 31 (O. montanus).
1913 B, 218 (O. americanus).
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 398 (O. montanus).
1924 C, 498 (O. americanus).
Miller, L. H. 1912 A, 70 (Haplocerus montanus).
Ord, G. 1815, Guthrie's Geog., 2d Amer. ed., 292, 309-310 (Ovis montanus).
Osborn, H. F. 1906 F, 217, figs. (O. montanus).
1910 B, 476, 483, 490 (O. montanus).
Palacký, J. 1903 B, 331 (Haplocerus montanus).
Scharff, R. F. 1911 A, 105 (O. montanus).
Scott, W. B. 1913 A, 202 (O. montanus).
Sinclair, W. J. 1904 A, 18 (Haplocerus montanus).
1905 B, 152, pl. xx, figs. 3, 4 (Aplocerus montanus).
Stock, C. 1925 A, 113 (O. americanus).
Trouessart, E. L. 1905 A, 735 (O. montanus).
Wright, R. R. 1883 A, 343 (Haplocerus montanus).

Recent; British Columbia, Washington, Oregon, Montana: Pleistocene (Potter Creek Cave); California.

Oreamnos sp. indet.

Furlong, E. L. 1904 A, 54 (Haplocerus). Pleistocene (Samwel Cave); California.
1906 A, 243 (Haplocerus). Pleistocene (Samwel Cave); California.
Hay, O. P. 1927 D, 214, 251. Pleistocene; California, Washington.
McConnell, R. G. 1905 A, 29. Pleistocene; Klondike, Canada.
McCornack, E. C. 1920 A, 16 (Ovis montana).
Matthew, W. D. 1902 F, 321 (Oreamnus). Pleistocene; Washington.
Miller, L. H. 1912 A, 73 (Haplocerus). Pleistocene (Samwel Cave); California.
Obalski, T. 1904 A, 216 ("mouton").
Osborn, H. F. 1910 B, 438, 439, 455, 466, 478.
Quackenbush, L. S. 1909 A, 126. Pleistocene; Klondike, Yukon.
Stock, C. 1925 A, 113. Pleistocene (cave); California: (Delight); Washington.

OVINÆ Baird.

Baird, S. F. 1857 A, 664.
Hay, O. P. 1902 A, 687 (Caprinæ).
Abel, O. 1913 B, 741 (Ovicaprinæ).
Arldt, T. 1907 D, 670 (Ovidæ).
Blanford, W. T. 1901 A, 298 ("sheep," "goats").
Carus, J. V. 1875 A, 150 (Ovina).
Disselhorst, R. 1906 A, 324 ("ziege").
Duerst, J. U. 1902 B, 36 (Ovina); 38 (Caprina).
1903 B, 342 ("ovides").
Engelmann, O. 1910 A, 486 ("schaf").
Frassetto, F. 1903 A, 340 (Caprinæ).
Gervais, P. 1852 A, 73 (Capra).
Gray, J. E. 1821 A, 307 (Capridæ).
Hay, O. P. 1914 A, 287 (Caprinæ).
Hoernes, R. 1886 A, 680 (Ovinæ).
Kampfen, P. N. 1905 A, 606 (Caprovinæ).
Knottnerus-Meyer, T. 1907 A, 77 (Capridæ); 79, 100 (Caprinæ).
Kowalewsky, W. 1877 A, 148 (Ovina).
Loomis, F. B. 1925 E, 591, 592, 593, 600, figs. 5, 6, 16 ("goats," "sheep").
Lydekker, R. 1916 C, 12 (Caprinæ).
1913 B, 72 (Caprinæ).
Matthew, W. D. 1915 A, 248, fig. 24 (Ovinæ)
1928 B, 968, 981, fig. 16 ("sheep").
Osborn, H. F. 1909 D, 86, 89 (Ovinæ).
1910 B, 554 (Caprinæ).
Owen, R. 1845 B, 528 (Ovidæ).
Roger, O. 1896 A, 243.
Schlosser, M. 1903 I, 160 (Ovidæ).
1904 C, 90 (Ovinæ).
Shitkow and Sabanjew 1909 A, 457 ("schafe").
Terra, P. 1911 A, 329.
Trouessart, E. L. 1905 A, 736 (Caprinæ).
Wallace, A. R. 1876 A, II, 224 (Caprinæ).
Weber and Abel 1928 A, 583, 588 (Caprinæ).
Wherry, G. 1901 A, 252, 348 ("sheep," "goat").
1902 A, 973 (Caprinæ).
Zittel and Schlosser 1911 A, 500 (Ovicaprinæ).
1923 A, 591 (Ovicaprinæ).

OVIS Linnæus. Type *O. aries* Linnæus.

Hay, O. P. 1902 A, 687.
Adams, C. C. 1905 A, 60.
Agassiz, L. 1859 B, 186 ("sheep").
Allen, J. A. 1892 A.
1903 A.
Altmann, F. 1925 A, 108.
Ameghino, F. 1905 A.
Anderson, R. J. 1902 C, 785 ("sheep").
Atzkern, J. 1923 A, 127 ("schafe").
Aulmann, G. 1909 A, 68.
Beddard, F. E. 1902 A, 321.
Beecker, A. 1903 A, 596.
Bertelli, D. 1909 A, 166, figs. 7, 19.
Black, D. 1915 A, 347, fig. 11.
Blendinger, W. 1904 A, 459, figs. 1, 2-9.
Boas, J. E. V. 1884 B, 397 ("schaf").

Bojanus, L. H. 1819 A, 1362, pl. xvi, fig. 1 ("schaf").
1824 A, 269, pl. xxi, figs. 9-20.
1824 B, 293, pls. xxiv, xxv.
1824 C, 697, pl. lviii, figs. 2, 3; pl. lix.
Bolk, L. 1913 A, 87, fig. 67.
Bradley, O. C. 1906 B, 530 ("sheep").
Bronn, H. G. 1849 A, 708.
Broom, R. 1926 A, 261 ("sheep").
Brown, A. E. 1904 B, 68.
Bugnion, E. 1901 A, 94 ("mouton").
Camerano, L. 1915 B, 5, pl. i, figs. 3-5.
1916 B, 6, pl. iv, fig. 4; pl. v, fig. 9; pl. vi, fig. 8.
Carus and Engelmann 1861 A, 1783.
Claus, T. 1911 A, 320, 364, pls. i, ii, figs. 1-19.
Cleland, J. 1836 B, 298 ("sheep").
Cuvier, G. 1805 A.
Dieulafé and Herpin 1906 A, 247 ("mouton").
Disselhorst, R. 1906 A, 325.
Doran, A. H. G. 1878 A, 427, pl. lxi ("sheep").
Duerst, J. U. 1902 B, 35.
1903 A, 361.
1908 A, 370.
Eichwald, E. 1832 A, 865 ("schaf").
Elliot, D. G. 1901 A, 46.
Fawcett, E. 1917 A, 327.
Foote, J. S. 1916 A, 102, 127, 135, pls. xi, xvi, xviii.
1921 A, 9, pl. ii, figs. 18, 19.
Frassetto, F. 1903 A, 340.
Frech, F. 1906 A, 484.
Gaupp, E. 1899 A, 1014 ("schaf").
Gervais, P. 1852 A, 75.
1859 A, 137.
Gidley, J. W. 1912 C, 20.
Giebel, C. G. 1883 A, pls. xxxii, xliva, lxxv, lxxxiii.
Goodsir, J. 1868 A, 54.
Grant, M. 1904 B, 197.
Grevé, C. 1900 A, 131.
Hasse and Schwarck 1870 A, 134.
Hensel, R. 1879 A, 555 ("schaf").
Holmes, F. S. 1859 A, 184 ("sheep").
Hrdlička, A. 1903 A, 374.
Hue, E. 1907 A, pls. lxvi, lxvii, xc, cv, cxix, cxxxi, cxliii, clvi, clxxiii, clxxxv.
Huxley, T. H. 1859 D, 386, figs. 1, 4.
Kampfen, P. N. 1905 A, 605.
Kingsley, J. S. 1896 A, 137 ("sheep").
Klaauw, C. J. 1924 B, 600.
Klatt, B. 1912 A, 156 ("schaf").
Köstlin, O. 1844 A.
Kowarzik, R. 1913 A, 439.
Kükenthal, W. 1908 B, 498, fig. 1 ("schaf").
Leche, W. 1887 A, pl. xcv.
Le Damany, P. 1906 B, 164 ("mouton").
Leunis and Ludwig 1883 A, 248.
Lewis, F. T. 1906 A, 507 ("sheep").
Loomis, F. B. 1925 E, 600, figs. 15, 16.
Lydekker, R. 1898 D, 149.
1907 B, 21.
1910 C, 12.
1913 B, 73.
Magitot, E. 1875 A, 81 ("mouton").
Matsumoto, H. 1926 E, 39, pls. xvi, xvii.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1924 C, 495.
Miyawaki, K. 1925 A, 177, figs. 1-5 ("schaf").
Nehring, A. 1880 A.
Osborn, H. F. 1910 B, 433, 474, 490, 554.
Owen, R. 1848 B, 21, fig. 7.
1868 A, 897.
Palmer, T. S. 1904 A, 490, 919.
Paulli, S. 1900 A, 222, pl. xi; text-figs. 33-36 ("schaf").
Perna, G. A. 122, 138, pl. v, figs. 15-17.
Peter, K. 1924 B, 499, fig. 13 ("schaf").
Pictet, F. J. 1853 A, 362.
Pouchet and Chabry 1884 A, 151 ("mouton").
Reichert, C. 1837 A, 219, pl. ix ("schaf").
Retterer and Lelièvre 1910 B, 988 ("mouton").
Retzius, A. 1837 A, 489.
1849 A, 667.
Rhumbler, L. 1913 B, 89, figs. 9-11 ("lämmer").
Rosenberg, A. 1873 A, 127 ("schaf").
Rudolf, G. de M. 1922 A, 142, fig. 9 ("sheep").
Salensky, W. 1880 A, 420 ("schaf").
Scharff, R. F. 1911 A, 80, 86.
Schlosser, M. 1897 B, 20 ("schaf").
1899 T, 451 ("schaf").
1903 I, 160 ("schafe").
Scott, W. B. 1896 D, 60 ("sheep").
1913 A, 419.
1917 A, 181 ("sheep").
Shitkow and Sabanejew 1909 A, 457.
Stadelmann, F. 1916 A, 114, pls. viii, ix.
Stock and Furlong 1927 A, 423.
Strecker, C. 1887 A, 314.
Taschenberg, O. 1899 A, 4645.
Thompson, A. 1907 A, 100, fig. 1.
Toldt, C. 1905 A, 331 ("schaf").
Tourneux, F., and J. P. 1912 A, 78, figs. 12-15 ("mouton").
Trouessart, E. L. 1905 A, 740.
Van Bemmelen, J. F. 1918 A, 571 ("sheep").
Voit, M. 1923 A, 71, fig. 2 ("schaf").
Weber, M. 1904 A, 681.
Weber and Abel 1928 A, 327, 589, fig. 354.
Weber and Burlet 1927 A.
Wherry, G. 1902 A, 974.
Wilder, B. 1872 B, 320.
Wincza, H. 1890 A, 648, pl. xxiv ("schaf").
Zimmerman, A. 1912 A, 646.
Zittel and Schlosser 1911 A, 500.
1923 A, 591, fig. 723.

Ovis canadensis Shaw.

Shaw, G. 1804, Naturalist's Misc., xv, 610.
Allen, J. A. 1912 B, 9 (O. cervina).
Baird, S. F. 1857 A, 673 (O. montana).
Biddulph, J. 1885 A, 678 (O. montana).
Brandt and Woldrich 1887 A, 111 (O. montana).
Elliot, D. G. 1901 A, 46, pl. xxi (O. cervina).
Fischer, J. B. 1829 A, 487 (Capra? columbiana).
Foote, J. S. 1916 A, 135, pl. xviii.
Giebel, C. G. 1878 B, 849 (O. montana).
Grant, M. 1904 B, 198 (O. cervina).
Grevé, C. 1900 A, 142 (O. montana).
Grinnell, G. B. 1904 A, 271.
1912 A (O. cervina).

Hornaday, W. T. 1901 A, 101, figs. (O. montana).
Jones, J. C. 1928 A, 7 ("bighorn sheep").
Lambe, L. M. 1912 B, 349 (O. montana).
Lobley, J. L. 1908 A, 195.
Lydekker, R. 1898 D, 204, pl. xvii; text-fig. 40.
1907 B, 22.
1913 B, 111.
Miller, G. S. 1912 B, 395.
1924 C, 495.
Osborn, H. F. 1910 B, 474, 476, 490 (O. montana).
Osgood, W. H. 1913 A, 57.
Richardson, J. 1854 A, 87, pl. i (O. montana).
Scott, W. B. 1913 A, 419.
1917 A, 181.
Trouessart, E. L. 1905 A, 741.
Wright, R. R. 1883 A, 345 (O. montana).

Recent; (including subspecies); in mountain regions from Alaska to British Columbia, south to Mexican Boundary and southwest Texas: Pleistocene; (Last Chance Creek); Yukon: Kowak (Clays); Alaska: (Delight) Washington.

Ovis dalli Nelson.

Nelson, E. W. 1884, Proc. U. S. Nat. Mus., VII, 12.
Allen, J. A. 1912 B, 27.
Biddulph, J. 1885 A, 678 (O. montana dalli).
Elliot, D. G. 1901 A, 47.
Grant, M. 1904 B, 197.
Lydekker, R. 1898 D, 219 (Subsp. O. canadensis).
1913 B, 118 (O. canadensis dalli).
Miller, G. S. 1912 B, 396.
1924 C, 497.
Quackenbush, L. S. 1909 A, 127 ("Ovis"). This species?
Trouessart, E. L. 1905 A, 741.

Recent; Alaska, Yukon: Pleistocene; Yukon.

Ovis mamillaris Hildreth.

Hildreth, S. P. 1837 A, 82, figs. 19a, 19b.
Hay, O. P. 1902 A, 687.
1923 A, 70, 273.
Lydekker, R. 1910 C, 310.

Pleistocene or Recent; Ohio. Probably the domestic sheep.

Ovis? scaphoceras (Cope).

Cope, E. D. 1894 H, 457 (Bos).
Leidy, J. 1886 D, 275 (Bos sp.).
Lucas, F. A. 1898, in Hill and Vaughan 1898 A, 252.
1899 A, 756 ("Ovis," This genus?).
Lydekker, R. 1898 B, 92 (Bos).
1898 D, 92 (Bos).
Rhoads, S. N. 1897 A, 500 (Bison).
Scharff, R. F. 1911 A, 66 (Bison).
Trouessart, E. L. 1897 A, 1356 (Bison).
1905 A, 746 (Bison).

Pleistocene; Nicaragua, Mexico, Texas.

Ovis sp. indet.

Gilmore, C. W. 1908 A, 36.
Hay, O. P. 1923 A, 337, 338, fig. 13. Pleistocene (Late); Illinois.
McConnell, R. G. 1905 A, 29 ("mountain sheep"). Pleistocene; Klondike, Canada.

AFTONIUS Hay. Type *A. calvini* Hay.

Hay, O. P. 1913 A, 6.
1914 A, 287.
Zittel and Schlosser 1923 A, 591, 680.

Aftonius calvini Hay.

Hay, O. P. 1913 A, 6.
Baker, F. C. 1920 A, 226, 243, 396.
Calvin, S. 1909 B, 350, pl. xxiii, fig. 1 ("horn-core").
Hay, O. P. 1914 A, 26, 287, pl. xxxiv, figs. 1, 2, 4, 5; text-fig. 95.
1928 C, 425.

Pleistocene (Aftonian); Iowa.

OVIBOVINÆ Gill.

Gill, T. 1872 B, 9, 77.
Abel, O. 1913 B, 746.
Allen, J. A. 1914 A, 210 ("musk-ox").
Arldt, T. 1912 A, 744.
Gaudry, A. 1903 A, 553 ("boeufs musqués").
Hay, O. P. 1912 D, 632.
1914 A, 290.
1924 D, 382.
Knottnerus-Meyer, T. 1907 A, 84, 100, 142 (Ovibovinæ); 81, 100 (Ovibovidæ).
Kowarzik, R. 1911 A, 106.
Lydekker, R. 1898 D, 141.
Lydekker, R. 1913 B, 221.
Matschie, P. 1898 A, 31.
Matthew, W. D. 1915 A. 248, fig. 24.
Miller, G. S. 1912 B, 394.
Osborn, H. F. 1910 B, 554.
Scott, W. B. 1916 A, 118 ("musk-oxen").
Staudinger, W. 1908 A, 483 ("ovibovinen").
Stock and Furlong 1927 A, 426.
Weber, M. 1904 A, 680.
Weber and Abel 1928 A, 591.
Zittel and Schlosser 1911 A, 501.
1923 A, 530.

PREPTOCERAS Furlong. Type *P. sinclairi* Furlong.

Furlong, E. L. 1905 A, 163.
1906 A, 244.
1907 A, 394.
Merriam, J. C. 1915 G, 101.
Miller, L. H. 1912 A, 71, 74.
1915 B, 71.
Osborn, H. F. 1909 D, 89.
Osborn, H. F. 1910 B, 466, 478, 554.
Scharff, R. F. 1911 A, 154.
Scott, W. B. 1913 A, 202, 203, 418, fig. 116.
Stock, C. 1926 B, 404.
Stock and Furlong 1927 A, 409-434.
Zittel and Schosser 1911 A, 501.
1923 A, 592, 680, 681.

Preptoceras mayfieldi Troxell.

Troxell, E. L. 1915 B, 479, figs. 1, 2.
Freudenberg, W. 1922 A, 5.
Hay, O. P. 1927 D, 113.
Stock and Furlong 1927 A, 411.
Pleistocene (Early); Texas.

Preptoceras sinclairi Furlong.

Furlong, E. L. 1905 A, 164, pls. xxiv, xxv.
Freudenberg, W. 1921 A, 137 (This species?).
Freudenberg, W. 1922 A, 5 (This species?).
Furlong, E. L. 1906 A, 245.
Hay, O. P. 1927 D, 113, 214.
Merriam, J. C. 1906 E, 226 ("Preptoceras").
Miller, L. H. 1912 A, 73.
Stock, C. 1925 A, 113.
Stock and Furlong 1927 A, 410, pls. lx-lxiii; text-figs. 2-5 (This species?).
Troxell, E. L. 1915 B, 479, fig. 3.
Pleistocene (Samwel Cave); California, Mexico?.

EUCERATHERIUM Sinclair and Furlong. Type *E. collinum* Sinclair and Furlong.

Sinclair and Furlong 1904 A, 411.
Allen, J. A. 1913 A, 169 (Uceratherium).
Diener, C. 1912 A, 216.
Furlong, E. L. 1905 A, 164.
1906 A, 244.
1907 A, 394.
Hay, O. P. 1918 B, 26.
Merriam, J. C. 1915 G, 101.
Miller, L. H. 1912 A, 74.
1915 B, 71.
Osborn, H. F. 1905 I, 110.
1909 D, 89.
1910 B, 440, 466, 476, 478, 554.
1912 G, 251.
Scharff, R. F. 1911 A, 154.
Scott, W. B. 1913 A, 202, 418.
Sinclair, W. J. 1904 A, 18.
1905 B, 150.
Stock, C. 1926 B, 404.
Stock and Furlong 1927 A, 409-434.
Zittel and Schlosser 1911 A, 501.
1923 A, 591, 682.

Euceratherium collinum Furlong and Sinclair.

Furlong and Sinclair 1904 A, 18.
Furlong, E. L. 1904 A, 55.
1906 A, 243, 245.
Hay, O. P. 1927 D, 305.
Merriam, J. C. 1906 E, 226 ("Euceratherium").
Merriam and Stock 1925 A, 10.
Miller, L. H. 1912 A, 70, 73.
Putnam, F. W. 1906 A, 232 ("Euceratherium").
Sinclair, W. J. 1904 A, 18.
1905 B, 150, pl. xx, figs. 1, 2.
Sinclair and Furlong 1904 A, 412, pls. l, li, text-fig. 1.
Stock, C. 1925 A, 113.
Pleistocene; (Caves); California.

Euceratherium sp. indet.

Furlong, E. L. 1904 A, 54. Pleistocene (Samwel Cave); California.
Stock and Furlong 1927 A, 413, text-fig. 1. Pleistocene; Gottville, California.

GIDLEYA Cossman. Type *Liops zuniensis* Gidley.

Cossman, M. 1907 A, 64.
Allen, J. A. 1913 A, 159, 216.
Gidley, J. W. 1906 B, 165, fig. 3 (Liops; preoccupied).

Gidleya zuniensis (Gidley).

Gidley, J. W. 1906 B, 165, figs. 1-3. (Liops; preoccupied).
Allen, J. A. 1913 A, 216.
Hay, O. P. 1922 A, 446.
1924 D, 378 (Liops, Lissops, Gidleya).
Staudinger, W. 1908 A, 481, 495.
Troxell, E. L. 1915 B, 479.
Pleistocene (Early); New Mexico.

OVIBOS Blainville. Type *O. moschatus* (Zimmerman).

Hay, O. P. 1902 A, 687.
Allen, J. A. 1913 A, 105.
Altmann, F. 1925 A, 108 (Ovibus).
Arldt, T. 1907 D, 670.
Boule, M. 1923 A, 176, 405 ("Musk-ox").
Depéret, C. 1912 A, 709.
Doran, A. H. G. 1878 A, 429, pl. lxi, figs 32, 40.
Elliot, D. G. 1901 A, 48.
Frech, F. 1907 A, 313.
Furlong, E. L. 1905 A, 166.
Geinitz, E. 1903 A.
1904 A.
Gidley, J. W. 1912 C, 19.
Giebel, C. G. 1883 A, pls. xxxiii, lxix.
Grant, M. 1904 B, 196.
Hay, O. P. 1912 D, 639.
1914 A, 292.
Hay, O. P. 1926 E, 390 ("musk-oxen").
Heilprin, A. 1887 A, 379, 380.
Hilzheimer, M. 1921 A, 142.
Hrdlička, A. 1920 A, 463, pl. v, fig. 3.
Hue, E. 1907 A, pls. lxx, xcii, cvi, cxx, cxliv, clxxiii, clxxxiv.
Hull, E. 1914 A, 612, 616 ("musk-ox").
Kampfen, P. N. 1905 A, 605.
Knottnerus-Meyer, T. 1907 A, 81, 84, 143, pl. vi, fig. 40.
1911 A, 16.
Kobelt, W. 1900 A, 61.
Kowarzik, R. 1908 A, 616.
1910 A, 90.
1911 A, 107 (Ovibos, Bovovis).
1912 A, 505.
Kukuk, P. 1913 A, 596.

Leunis and Ludwig 1883 A, 248.
Loomis, F. B. 1925 E, 600, figs. 15, 16.
Lydekker, R. 1898 D, 139.
1910 E, 352 ("musk-oxen").
1913 A, 7 (Ovibos, Bosovis, Bovovis).
1913 B, 222.
1925 A, 322.
Lyon, M. W. 1925 A, 322.
Matschie, P. 1896 A, 250 ("moschusochse").
1898 A, 30.
1901 A, 308.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 394.
1924 C, 494.
Nathorst, A. G. 1901 A, 5, figs. 3, 4.
Osborn, H. F. 1909 D, 87, 89.
1910 A, 214.
1910 B, 626.
1912 G, 251.
Palmer, T. S. 1904 A, 490, 918.
Scharff, R. F. 1911 A, 8, 80, 154.
Schlosser, M. 1903 I, 155.
Schwarz, E. 1924 A, 421 ("musk-ox").
Scott, W. B. 1913 A, 202, 208, 362, 418.
1917 A, 120, 130 ("musk-ox").
Staudinger, W. 1908 A, 481.
Stock and Furlong 1927 A, 414, 426.
Trouessart, E. L. 1905 A, 742.
Wallace, A. R. 1876 A, i, 130; ii, 224, 225.
Weber, M. 1904 A, 680.
Weber and Abel 1928 A, 591.
Wright, R. R. 1883 A, 343, 351.
Zittel and Schlosser 1911 A, 501.
1923 A, 591, 682.

Ovibos appalachicolus Rhoads.

Hay, O. P. 1902 A, 687.
Allen, J. A. 1913 A, 203.
Hay, O. P. 1923 A, 249 (Bison).
Osgood, W. H. 1905 A, 181.
Rhoads, S. N. 1903 A, 239.
Staudinger, W. 1908 A, 481, 494.
Pleistocene; Pennsylvania.

Ovibos moschatus (Zimmerman).

Hay, O. P. 1902 A, 688.
Abel, O. 1922 C, 45, fig. 46.
Adams, A. Leith 1879 A, 116 ("musk-ox").
Alden and Leighton 1917 A, 134.
Allen, J. A. 1901 A, 69, pl. xii; text-figs. 2, 4, 7.
1912 A, 720.
1913 A, 105.
1914 A, 210.
Arldt, T. 1907 D, 605.
Baker, F. C. 1920 A, 465.
Beddard, F. E. 1902 A, 327.
Bell, R. 1898 A, 373 ("musk-ox").
Bensley, B. A. 1923 A, 4.
Brandt and Woldrich 1887 A, 112.
Brower, C. D. 1911 A, 754 ("musk-ox").
Brown, A. E. 1904 B, 73.
Brown, B. 1908 A, 203 ("Ovibos").
Chadbourne, P. A. 1871 A ("musk-ox." This species?).
Conwentz, —— 1900 A, 427.
Cuvier, G. 1825 A, iv, 133, 140, 155, pl. x, figs. 15-17; pl. xii, figs. 9, 10 (Bos moschatus).
Dall, W. H. 1870 A, 238 ("musk-ox").
1870 B, 136 ("musk-ox").
1896 A, 854.
Dall and Harris 1892 A, 264.
Dawkins, W. B. 1885 A, 242, fig.
Dawson, G. M. 1899 A, 19.
Dawson, J. W. 1894 D, 4.
Diener, C. 1912 A, 218.
Doran, A. H. G. 1878 A, 429, pl. lxi.
Elliot, D. G. 1901 A, 48, pl. xxii.
Fielden, H. W. 1877 A, 488.
Fielden and De Rance 1878 A, 566.
Fischer, J. B. 1829 A, 494 (Bos).
Foote, J. S. 1916 A, 107, pl. xii.
Foster, J. W. 1873 A, 85 ("musk-ox").
Frech, F. 1906 A, 473.
Frech and Geinitz 1903 A, 36.
Geikie, J. 1914 A, 325 ("musk-ox").
Gervais, P. 1859 A, 365.
Giebel, C. G. 1883 A, pl. lxix (Bos).
Gilmore, C. W. 1908 A, 35.
Girtanner, A. 1901 A, 120-146.
Goddard, P. E. 1927 A, 68 ("musk-ox").
Grant, M. 1904 B, 196.
Grevé, C. 1901 A, 371.
Harlé, E. 1901 A, 455 ("bœuf musqué").
Haug, E. 1911 A, 1873, 1887.
Hay, O. P. 1912 B, 8.
1912 D, 641, pl. ix.
1914 A, 293, pl. xxxvi, figs. 1-3.
1920 B, 126.
1923 A, 493.
1924 D, 382.
1927 D, 284.
Hornaday, W. T. 1911 A, 754.
Kobelt, W. 1900 A, 61, pl. vii, text-fig. 1.
Koken, E. 1893 B, 596.
Kowarzik, R. 1908 A. 616.
1909 A, 857.
1910 A, 89, pl. i; text-figs. 1-16.
1911 A, 106.
1912 A, pls. i, ii.
1913 B, 757.
Lambe, L. M. 1904 C, 31, 39, 51.
1907 A, 15 (This species?).
1908 B, 110 (This species?).
1912 A, 14.
Lartet, E. 1865 A, 474.
Lobley, J. L. 1908 A, 195.
Lydekker, R. 1898 D, 142, pl. xi.
1907 B, 31, fig. 12.
1913 B, 224.
Matschie, P. 1901 A, 308.
Miller, G. S. 1912 B, 394.
1924 C, 494.
Moreau, L. J. 1900 A, 115 ("bœuf-musqué").
Murdoch, J. 1892 A, 56.
Nehring, A. 1880 A.
Newton, E. T. 1891 A, 22.
Obalski, T. 1904 A, 216 ("bœuf-musqué").
Osborn, H. F. 1910 B, 438, 490, 492.
1916 B, 542.
Osgood, W. H. 1905 A, 184, pl. xxxvii, fig. 1; pl. xxxviii, fig. 1, pl. xxxix.
Peabody, C. 1913 A, 4 ("musk-ox").
Putnam, F. W. 1900 A, 11 ("musk-ox").
1911 A, vi ("musk-ox").
1911 B, 248 ("musk-ox").

Quackenbush, L. S. 1909 A, 127.
Rhoads, S. N. 1895 A, 247.
 1903 A, 239.
Römer, F. 1907 A, 64.
Scharff, R. F. 1907 A, 124 ("musk-ox").
 1911 A, 6.
Scott, W. B. 1913 A, 208.
Soergel, W. 1913 A, 103 (Præovibos).
Staudinger, W. 1908 A, 481.
Stefánnson, V. 1912 A, 720 ("musk-ox").
Stehlin, H. G. 1916 A, 93.
Stejneger, L. 1901 B, 92.
 1928 A, 157 ("musk-ox").
Taschenberg, O. 1899 A, 4644.
Trouessart, E. L. 1905 A, 742.
Volk, E. 1911 A, 111, pl. lxxxvii, fig. 1 (Bos.).
 1912 A, 185 ("musk-ox").
Wanderer, K. 1910 A, 83.
Webster, F. S. 893 A, 68, fig.
Wilson, T. 1901 A, 333.
Winchell, N. H. 1910 A, 419, pl. xi (O. cavifrons).
Winge, H. 1904 A, 286.
Wissler, C. 1916 A, 236 ("musk-ox." This genus?).
Woodward, A. S. 1898 B, 373.
Woodward, A. S. 1923 C, 47.
Woodworth, J. B. 1911 A, 273 ("musk-ox").
Wright, G. F. 1911 B, 675 ("musk-ox").
 1911 C, 42 ("musk-ox").
Wright, R. R. 1883 A, 351, fig. 171.

Recent; Arctic regions of northeast America and Greenland: Pleistocene; Grinnell Land, New Jersey?, Ohio, Indiana, Colorado?, Iowa, Nebraska, Minnesota, South Dakota, Alberta?.

Ovibos proximus Bensley.

Bensley, B. A. 1923 A, 1-11, pls. i, ii.
 Pleistocene (Late); Ontario.

Ovibos yukonensis Gidley.

Gidley, J. W. 1908 A, 681, pls. lvii, lviii; text-fig. 1.
Allen, J. A. 1913 A, 201.
Bensley, B. A. 1923 A, 4.
Diener, C. 1912 A, 218.
Haug, E. 1911 A, 1873.
Osborn, H. F. 1910 B, 490.
Quackenbush, L. S. 1909 A, 92, 127.
Wanderer, K. 1910 A, 84 (Syn. of O. m. mackenzianus).
 Pleistocene; Yukon.

BOÖTHERIUM Leidy. Type *Bos bombifrous* Harlan.

Leidy, J. 1852 F, 71.
Hay, O. P. 1902 A, 687 (Ovibos, part).
Allen, J. A. 1913 A, 159, 209.
Bensley, B. A. 1923 A, 9.
Hay, O. P. 1910 D, 372.
 1912 D, 632.
 1915 A, 527.
 1923 A, 14, 96.
Kowarzik, R. 1912 A, 559.
Osgood, W. H. 1905 A, 81.
Palmer, T. S. 1904 A, 139, 915.
Scharff, R. F. 1911 A, 7, 154.
Staudinger, W. 1908 A, 495.
Wallace, A. R. 1876 A, II, 225.
Zittel and Schlosser 1911 A, 501 (Syn. of Ovibos).
 1923 A, 591 (Syn. of Ovibos).

Boötherium bombifrons Leidy.

Hay, O. P. 1902 A, 687 (Ovibos).
Agassiz, L. 1851 B, 179 (Bos).
Allen, J. A. 1913 A, 209, fig. 45.
Baker, F. C. 1920 A, 315, 341, 396.
Cooper, Smith, and Dekay 1831 A, 371 (Bos).
Fischer, J. B. 1829 A, 498 (Bos).
Foster, J. W. 1869 A, 238,, 254.
 1873 A, 87 (Ovibos).
Gervais, P. 1859 A, 365 (Bos).
Godman, J. D. 1860 A, II, 266, pl. ("Wistar's fossil ox").
Hay, O. P. 1912 D, 633, pl. viii.
 1914 A, 291, pl. xxxv; text-fig. 96.
 1923 A, 367.
Holland, W. J. 1919 A, 39 ("Boötherium").
Kowarzik, R. 1909 A, 859.
 1912 A, 560.
Lydekker, R. 1898 D, 148 (Ovibos).
Osborn, H. F. 1910 B, 490.
Osgood, W. H. 1905 A, 180, 181, pl. xxxix, fig. 2; pl. xli, fig. 2; pl. xlii, fig. 2.
Peterson, O. A. 1926 A, 258, pl. xix, figs. 1-13; pl. xx, figs. 1-8; pl. xx (This species?).
Quackenbush, L. S. 1909 A, 127.
Rhoades, S. N. 1895 A, 247 (Ovibos).
Ruschenberger and Tryon 1879 A, 14.
Scharff, R. F. 1911 A, 80, 154.
Staudinger, W. 1908 A, 481, 494, 495.
Trouessart, E. L. 1905 A, 742 (Ovibos).
 Pleistocene (Middle); Kentucky.

Boötherium nivicolens Hay.

Hay, O. P. 1915 A, 523, pl. xxxi, fig. 1.
 Pleistocene; Alaska.

Boötherium sargenti Gidley.

Gidley, J. W. 1908 A, 683, pl. lix.
Baker, F. C. 1920 A, 455.
Hay, O. P. 1910 D, 372.
 1914 A, 304.
 1915 A, 525, pl. xxxi, fig. 2.
 1923 A, 83, 331.
 Pleistocene (Late Wisconsin); Michigan.

Boötherium sp. indet.

Hay, O. P. 1923 A, 252 (This genus?). Pleistocene (Late Wisconsin); Illinois.

SYMBOS Osgood. Type *S. tyrelli* Osgood.

Osgood, W. H. 1905 D, 223.
Allen, J. A. 1913 A, 159, 169, 213.
Bensley, B. A. 1923 A, 5.
Falconer, H. 1863 A, 62 (Boötherium).
Hay, O. P. 1910 D, 372.
 1912 D, 634.
 1914 A, 298.
 1926 E, 390 ("musk-oxen").

Matthew, W. D. 1915 K, 403.
Osborn, H. F. 1909 D, 90.
1910 B, 487, 488, 490, 554.
Osgood, W. H. 1905 A, 174 (Scaphoceros, preoccupied).
Scharff, R. F. 1911 A, 153, 154, 155.
Scott, W. B. 1913 A, 208, 362, 418.
Zittel and Schlosser 1911 A, 501 (Syn. of Ovibos).
1923 A, 591, 681 (Syn. of Ovibos).

Symbos australis B. Brown.

Brown, B. 1908 A, 203, pl. xxii.
Haug, E. 1911 A, 1887.
Hay, O. P. 1914 A, 32.
1920 B, 125.
1924 D, 178, 251.
Osborn, H. F. 1910 B, 488.
Pleistocene (Middle); Arkansas.

Symbos cavifrons (Leidy).

Hay, O. P. 1902 A, 687 (Ovibos).
Allen, J. A. 1913 A, 214, pls. xvii, xviii.
Baker, F. C. 1920 A, 473.
Bradley, F. H. 1870 A, 229 ("Boötherium." This species?).
Brown, B. 1908 A, 202.
Calvin, S. 1897 A, 19 (Ovibos).
Case, E. C. 1915 B, 1, pls. i, ii.
Dall, W. H. 1896 A, 854 (Ovibos).
Dall and Harris 1892 A, 264 (Ovibos).
Dawkins, W. B. 1885 A, 243 (Ovibos).
Foster, J. W. 1869 A, 254 (Boötherium).
1873 A, 87 (Ovibos).
Fuller, M. L. 1912 A, 77 (Boötherium bombifrons).
Gervais, P. 1859 A, 365 (Bos).
Gilbert, G. K. 1890 A, 211, 305 ("musk-ox").
Gilmore, C. W. 1908 A, 35 (Ovibos maximus).
1918 B, 59.
Hatcher, J. B. 1902 E, 707, 709.
Hay, O. P. 1910 D, 372.
1912 B, 9.
1912 D, 635, text-figs. 49, 50.
1914 A, 42, 298, pl. xxxvi, fig. 4; pl. xxxvii, fig. 3; text-figs. 97-99.
1918 B, 22.
1920 B, 125.
1923 A, 496.
1924 D, 384 (Symbos, Ovibos).
1927 C, 282 ("musk-ox").
1927 D, 112, 278, pl. i, fig. 3.
1928 C, 425, 428, 429.
Keyes, C. R. 1889 A, 121 (Ovibos).
Kowarzik, R. 1909 A, 859 (Boötherium).
1912 A, 560 (Boötherium).
Lydekker, R. 1898 D, 148 (Syn. of Ovibos bombifrons).
Lyon, M. W. 1925 A, 321, fig. 1.
McGee, W J 1902 A, 200 (Ovibos).
Moodie, R. L. 1923 B, 129, pl. xxvi.
Osgood, W. H. 1905 A, 180, pl. xl, fig. 1; pl. xli, fig. 1 (Scaphoceros).
1905 D, 224.
Rhoads, S. N. 1895 A, 245 (Ovibos).
Richardson, J. 1854 A, 25, pl. xi, fig. 2-4 (Ovibos maximus).
Ruschenberger and Tryon 1879 A, 14 (Boötherium).
Shaler, N. S. 1877 A, 197 (Ovibos).
Shimek, B. 1902 A, 285 (Boötherium).
Staudinger, W. 1908 A, 481, 495.
Tilton, J. L. 1915 A, 236.
Trouessart, E. L. 1905 A, 742 (Ovibos).
Udden, J. A. 1901 A, 361.
Winchell, N. H. 1907 A, 164 (Ovibos).
Wright, G. F. 1905 A, 18 ("musk-ox." This species).
1911 A, 282 ("musk-ox." This species?).
Pleistocene; Oklahoma, Missouri, Illinois, Kentucky, Kansas, Iowa, Utah, Ohio, Michigan, Indiana, Alaska.

Symbos promptus Hay.

Hay, O. P. 1920 B, 115, 125, pl. vi, figs. 9, 10; pl. viii, figs. 1-6.
1923 A, 254.
1924 D, 178, 254, 255.
Leighton, M. M. 1921 A, 513.
Pleistocene (Middle); Oklahoma, Illinois?

Symbos tyrrelli Osgood.

Osgood, W. H. 1905 A, 173, pl. xxvii, fig. 2; pl. xxxviii, fig. 2; pl. xxxix, fig. 1; pl. xl, fig. 2; pl. xlii, fig. 1 (Scaphoceros).
Allen, J. A. 1913 A, 215.
Bensley, B. A. 1923 A, 6 (S. tyrelli).
Dall, W. H. 1868 A, 35 ("musk-ox." This species?).
Diener, C. 1912 A, 218.
Gilmore, C. W. 1908 A, 34.
Haug, E. 1911 A, 1873 (O. tyrelli).
Hay, O. P. 1914 A, 298, 302, pl. xxxvii, figs. 1, 2.
Lambe, L. M. 1912 A, 14.
1917 E, 295.
Osgood, W. H. 1905 C, 788 ("extinct musk-ox").
1905 D, 224.
Quackenbush, L. S. 1909 A, 127 (Ovibos).
Scharff, R. F. 1911 A, 80.
Staudinger, W. 1908 A, 481.
Pleistocene; Alaska.

Symbos sp. indet.

Hay, O. P. 1923 A, 68, 184, 248. Pleistocene; Pennsylvania.
1924 D, 179. Pleistocene; Iowa.
Tilton, J. L. 1910, 950. Pleistocene; Iowa.

BOVINÆ.

Hay, O. P. 1902 A, 688.
Abel, O. 1913 B, 746.
1914 A, 184.
1919 A, 815 (Cavicornia).
Adam, W. 1854 A, 237 ("bovines").
Arldt, T. 1907 D, 256 (Bisoninæ).
1912 A, 744 (Bisoninæ).
Auerbach, M. 1908 A, 5.
Bonaparte, C. L. 1832 A, 291 (Bovina).
Cuvier, G. 1825 A, IV, 107-165, pls. x-xii ("bœufs").
Duerst, J. U. 1902 B, 9 ("rind").
1903 B, 342 ("bovidés").
1908 A, 359.
Gadow, H. 1902 A, 220.

Hay, O. P. 1912 D, 644.
1914 A, 308.
Hoernes, R. 1886 A, 680.
Kampfen, P. N. 1905 A, 606.
Knottnerus-Meyer, T. 1907 A, 87, 89, 145 (Bovinæ); 144 (Bisontinæ).
La Baume, W. 1909 A, 45.
Lydekker, R. 1898 D, 3.
1913 B, 11.
Major, C. J. F. 1901 B, 243.
Matsumoto, H. 1918 D, 83 ("bisontines").
Matthew, W. D. 1915 A, 248, fig. 24.
Matthew, W. D. 1928 B, 968, 981, fig. 16 ("cattle").
Nopcsa, F. 1926 A, 645.
Osborn, H. F. 1909 D, 86.
1910 B, 255, 311, 329, 555.
Röse, C. 1897 A, 54, fig. 20 (Bos).
Schlosser, M. 1903 I, 172 ("bovinen").
Weber, M. 1904 A, 677.
Weber and Abel 1928 A, 583, 591.
Wherry, G. 1901 A, 348 ("oxen").
Zittel and Schlosser 1911 A, 504.
1923 A, 595.

BISON H. Smith. Type *Bos bison* Linnæus.

Hay, O. P. 1902 A, 688.
Abel, O. 1912 F, 663.
Allen, G. M. 1920 B, 161.
Allen, J. A. 1892 A.
Altmann, F. 1925 A, 108.
Arldt, T. 1907 D, 200.
Auerbach, M. 1908 A, 8.
Baker, F. C. 1920 A, 455.
Beddard, F. E. 1902 A, 318.
Beyer, H. 1908 A, 81 ("öchse").
Boas, J. E. V. 1884 B, 396 ("rind").
Brauer, A. 1914 A, 282.
Cope, E. D. 1880 U, 158 (Bos).
1895 G, 596 (Bos).
Depéret, C. 1912 A, 709.
De Stefani, C. 1921 A, 258.
Diener, C. 1912 A, 216 ("bisonten").
Elliot, D. G. 1901 A, 48.
Filatov, D. 1912 A.
Foote, J. S. 1916 A, 128, pl. xvi.
Frech, F. 1906 A, 479.
Gaudry, A. 1875 D, 1282 ("bisons").
Geikie, J. 1914 A, 320.
Geinitz, E. 1903 A.
1904 A.
Gidley, J. W. 1912 C, 19 ("bisons").
1913, in Matson and Stanford 1913 A, 143.
Gilmore, C. W. 1908 A, 34.
Grant, M. 1904 B, 196.
Gregory, W. K. 1912 F, 288.
Hay, O. P. 1912 B, 13.
1912 D, 645.
1913 C, 162.
1914 A, 309.
1917 I, 212.
1918 B, 10, 13.
1923 A, 480.
1925 D, 245.
1927 E, 77 ("bisons").
Heilprin, A. 1887 A, 379.
Hensel, R. 1879 A, 555 ("rind").
Hilzheimer, M. 1909 A, 241.
1910 A, 136.
1910 B, 42.
1920 A, 44, 77.
1921 B, 1.
Hrdlička, A. 1920 A, 464.
Hull, E. 1914 A, 616.
Kingsbury, B. F. 1926 A, 102 ("ox").
Knottnerus-Meyer, T. 1907 A, 89, 145, fig.
1910 A, 589.
La Baume, W. 1909 A, 45, 50.
Leunis and Ludwig 1883 A, 246.
Lindgren, W. 1911 A, 52 (Bos).
Lydekker, R. 1898 D, 50.
1913 B, 34.
Manigault, G. E. 1887 A, 130 ("bison").
Matsumoto, H. 1918 D, 83.
Matthew, W. D. 1915 A, 250.
1915 K, 410 ("bisons").
1924 E, 748.
Matthew and Cook 1909 A, 367.
1909 B, 197.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
Merriam, J. C. 1906 D, 249.
1918 D, 519.
Meunier, S. 1903 A, 775 ("bisons").
Miller, G. S. 1912 B, 394.
1924 C, 494.
Osborn, H. F. 1909 D, 87, 89.
1910 B, 607.
1912 G, 251.
1916 B, 536.
Owen, R. 1868 A, 867.
Palacký, J. 1903 B, 318.
Palmer, T. S. 1904 A, 187, 915.
Pavlow, W. 1906 A, 200.
1906 B, 53.
Roberts, F. H. H. 1927 A, xiv ("buffalo").
Sauvage, H. E. 1899 C, 148.
Schlosser, M. 1903 H, 146.
Schmidt, E. 1872 A, ("büffel").
Scott, W. B. 1913 A, 202, 362, 420, 677.
1916 A, 118 ("bison").
1917 A, 132.
Seton, E. T. 1909 A, 247.
Shimek, B. 1910 A, 135 (Bos).
Spencer, J. W. 1898 A, 27 ("bison").
Strecker, C. 1887 A, 312.
Trouessart, E. L. 1905 A, 745.
Tscherski, J. D. 1892 A, 75.
Troxell, E. L. 1917 C, 212.
Upham, W. 1902 A, 149 ("bison").
1903 C, 22679 ("bison").
Virchow, H. 1910 F, 265 ("rind").
1910 G, 269 ("rind").
Wallace, A. R. 1876 A, II, 222, 225.
Weber, M. 1904 A, 679.
Weber and Abel 1928 A, 592, 595.
Werth, E. 1917 A, 248.
Wilder, B. 1872 B, 320 (Bos).
Winchell, N. H. 1917 A, 133 (Bos).
Winge, H. 1906 A, 125.
Wright, G. F. 1911 B, 744 ("bison").
Wright, R. R. 1883 A, 315.

Yermoloff, A. 1907 A, 278.
Zittel and Schlosser 1911 A, 505.
1923 A, 595, 680, 681.

Bison alleni Marsh.

Hay, O. P. 1902 A, 688.
Baker, F. C. 1920 A, 455.
Beddard, F. E. 1902 A, 319.
Cook, H. J. 1928 A, 36.
Espinosa, L. 1902 A, 26, pl. opp. p. 8 ("Bos").
Gidley, J. W. 1924 A, 70 (B. sp.).
Gilmore, C. W. 1908 A, 33, pl. xii.
Haug, E. 1911 A, 1873, 1886.
Hay, O. P. 1913 C, 182, pl. xv, fig. 3; pls. xvi, xvii; text-figs. 7-9.
1914 A, 326, pl. xli, text-fig. 103.
1919 D, 364.
1923 A, 256.
1923 C, 3.
1924 D, 374 (B. alleni); 95 (B. crampianus).
1927 D, 302, 307.
Hilzheimer, M. 1910 A, 145.
1920 A, 60.
Holmes, W. H. 1903 A, 244 ("bison." This species?).
King, C. 1878 A, 494 (B. latifrons. This species?).
Lambe, L. M. 1917 E, 295.
Lull, R. S. 1921 B, 167.
Lydekker, R. 1912 D, 261 (Bos).
Matsumoto, H. 1918 D, 101.
McClung, C. E. 1905 A, 158.
McConnell, R. G. 1901 A, 185 (B. laticornis. This species?).
McGee, W J 1888 A, 27 ("ox." This species?).
Martin, H. T. 1924 A, 273, pl. xxvi, fig. 1; pl. xxvii, figs. 4, *4a* (B. willistoni).
Mudge, B. F. 1877 A, 10 (B. latifrons).
Osborn, H. F. 1910 B, 464, 481, 483, 490.
Palacký, J. 1903 B, 318.
Quackenbush, L. S. 1909 A, 127, pl. xvii.
Richardson, J. 1854 A, 35, pl. xiii, fig. 3 (B. priscus?).
Scharff, R. F. 1911 A, 66, 80.
Shuler, E. W. 1923 A, 333 ("bison." This species?).
Soergel, W. 1921 A, 10, text-fig. 2 (B. latifrons).
Trouessart, E. L. 1905 A, 745.
Pleistocene; Kansas, Texas, Idaho, California, Nevada, Alaska, Yukon, Ontario.

Bison antiquus Leidy.

Hay, O. P. 1902 A, 688.
Abel, O. 1926 B, 238.
Archer, W. J. 1918 B, 13 ("bison").
Baker, F. C. 1920 A, 455.
Beddard, F. E. 1902 A, 319.
Chandler, A. C. 1916 B, 121; figs. 1-4, 7-12.
1916 D, 170.
Condon, T. 1871 A, 470 ("broad-faced ox").
1902 A, 153 (B. latifrons).
1910 A, 130, pl. xxix (B. latifrons).
Cooper, J. G. 1875 A, 390 (B. latifrons).
Foster, J. W. 1869 A, 254.
1873 A, 89.
Frech, F. 1906 A, 479.
Frech and Geinitz 1903 A, 36.
Gilbert, J. Z. 1910 B, 25, 36, fig. (Bos).
Haug, E. 1911 A, 1887.
Hay, O. P. 1912 D, 649, text-figs. 50, 51.
1913 C, 164, text-figs. 1-3.
1914 A, 309, 317, text-figs. 100, 101.
1923 A, 480.
1924 D, 189, 196.
1926 F, 426 ("bisons").
1927 D, 302.
Holmes, W. H. 1901 A, 423 ("bison." This species?).
La Baume, W. 1909 A, 57.
Lawson, A. 1914 A, 15.
Lindgren, W. 1911 A, 51 (Bos latifrons).
Lydekker, R. 1898 D, 61 (Syn. of Bos priscus).
1912 D, 260 (Bos).
McClung, C. E. 1905 A, 158.
McCornack, E. C. 1920 A, 16, 19.
Merriam, J. C. 1908 D, 473 ("bison").
1909 A, 293.
1909 C, 12, fig. ("bison").
1914 D, 15.
1915 G, 101 ("bison").
1918 D, 519 ("bison").
Merriam and Stock 1925 A, 11.
Miller, L. H. 1909 B, 306.
1912 A, 78.
Osborn, H. F. 1910 B, 607.
1925 D, 528, 531, 539, fig.
Rhoads, S. N. 1895 A, 248.
Ruschenberger and Tryon 1879 A, 92.
Schmidt, O. 1886 A, 187.
Sinclair, W. J. 1904 A, 20.
1908 A, 112 ("bison" This species?).
Stock, C. 1925 A, 30, 35, 201.
Swarth, H. S. 1915 A, 24, fig. 12.
Trouessart, E. L. 1905 A, 745.
Whitney, J. D. 1879 A, 249 (B. latifrons).
Wilson, T. 1901 A, 311 (B. latifrons. This species?).
Wyman, L. E. 1922 A, 28, fig. 19.
Yates, L. G. 1874 B, 18 (B. latifrons).
1903 A, 101 (B. latifrons).
Pleistocene; Indiana, West Virginia?, Kentucky, Iowa, California, Oregon, Utah?.

Bison bison (Linnæus).

Hay, O. P. 1902 A, 689.
Abbott, C. C. 1881 A, 482, 483 ("bison").
Abel, O. 1926 B, 440 (B. americanus).
Adam, W. 1854 A, 238 ("American bison").
Allen, G. M. 1920 B, 162, figs. 2, 3 (This species?).
1926 A, 452 (This species?).
Allen, J. A. 1900 C, 63.
Altmann, F. 1925 A, 108 (B. americanus).
Bailey, V. 1923 A, 254.
Baker, F. C. 1920 A, 455.
Bell, R. 1898 A, 373 ("bison").
Brandt and Woldrich 1887 A, 7 (Bos).
Broadhead, J. C. 1875 A, 186 ("bison").
Brown, A. E. 1904 B, 64.
Chandler, A. C. 1916 B, 122, figs. 5, 6.
Clapp, F. G. 1908 A, 520 (Bos americanus).
Collett, J. 1883 A, 73 ("buffalo").
Cooper, W. 1831 A, 211 (Bos americanus).

Cooper, Smith and Dekay 1831 A, 371 (Bos americanus).
Cuvier, G. 1825 A, IV, 138, 139, pl. x, figs. 3, 4; v, 2, 530 (Bos bison).
Elliot, D. G. 1901 A, 49, pl. xxiii.
Fischer, J. B. 1829 A, 495 (Bos).
Frech, F. 1906 A, 487 (B. americanus).
Gervais, P. 1859 A, 365 (Bos americanus).
Gidley, J. W. 1911 A, 436 (B. bison?).
    1912 C, 19.
Grant, U. S. 1899 A, 189 (Bos americanus).
Hahn, W. L. 1909 A, 452.
Hartnagel and Bishop 1923 A, 92, pl. xxv.
Haug, E. 1911 A, 1886.
Hawn, F. 1866 A, 101 (B. americanus).
Hay, O. P. 1912 B, 13.
    1912 D, 645, pl. x.
    1913 B, 585.
    1914 A, 38, 309, 310, pl. xxxviii; pl. xxxix, fig. 1.
    1915 A, 520.
    1918 C, 346 (This species?).
    1920 B, 127.
    1923 A, 480.
    1923 C, 1-6.
    1924 D, 374.
    1927 D, 302.
Hayden, F. V. 1872 A, 10 ("buffalo").
Hilzheimer, M. 1909 A, 243, 257, 266 (B. bison); pl. vii, figs. 3, 4 (B. americanus).
    1910 B, 44 (B. americanus).
    1920 A, 54, 79.
    1921 B, 1-63, figs. 3, 6, 9, 14, 19, 27, 30, 33, 36, 39, 42, 44.
Holmes, W. H. 1903 A, 242 ("bison").
Hornaday, W. T. 1889 A, 369-548, pls. i-xxii (B. americanus).
Hrdlička, A. 1903 A, 378.
Hue, E. 1907 A, pls. xx, lxxiii, xciii, cvii, cxxi, cxxviii, cxlv, clviii, clxxv, clxxxvi (Bos americana).
Kermode, F. 1916 A, 21.
Knottnerus-Meyer, T. 1907 A, 145.
Koken, E. 1893 B, 596 (B. americanus).
La Baume, W. 1909 A, 57 (B. americanus).
Lambe, L. M. 1916 C, 21.
Lawson, A. C. 1889 A, 172 F (Bos americanus).
Leche, W. 1887 A, 603 (Bos).
Loomis, F. B. 1925 E, 602.
    1925 F, 602.
Lucas, F. A. 1887 A, 460 (B. americanus).
Lydekker, R. 1898 D, 79 (Bos).
    1907 B, 19 (Bos).
    1912 D, 216, 260, pl. xxii (Bos).
    1913 B, 37 (Bos).
Lyell, C. 1845 B, II, 65 ("bison").
Martin, H. T. 1924 A, pl. xxvii, figs. 6, 6a.
Matthew, W. D. 1915 K, 410 ("bison").
McClung, C. E. 1905 A, 158.
McGee, W J 1891 A, 431 (B. americanus?).
Merriam, C. H. 1926 A, 211.
Miller, G. S. 1924 C, 494.
Miller, R. 1912 B, 394.
Moodie, R. L. 1923 B, 129, pls. xviii, xxiv, lvi, lvii.
Moreau, L. J. 1900 A, 112 ("bisons").
Osborn, H. F. 1910 B, 368 ("Bison"); 464, 607 (B. bison).
Owen, R. 1868 A, 625 (B. americanus).
Packard, A. S. 1867 A, 243, 246, 260, 261 ("bison").
    1868 B, 268 ("bison").
Pavlow, M. 1906 B, 54 (B. americanus).
Peabody, C. 1913 A, 4 ("bison").
Rhoads, S. N. 1895 A, 244.
    1903 A, 239.
Savage, J. 1878 A, 10 ("buffalo").
Scharff, R. F. 1911 A, 65, 145.
Schmidt, O. 1886 A, 180, fig. 28 (B. americanus).
Scott, W. B. 1913 A, 152, 203, 419.
Seton, E. T. 1906 F, 385-405, figs. (B. americanus).
    1909 A, 247, pls. xxii-xxxi; text-figs. 100-107, maps 10-12.
Shaler, N. S. 1870 A, 136 (Bos americanus).
    1877 A, 197 ("buffalo").
Slade, D. D. 1887 A, 460 (B. americanus).
Smith, B. 1914 B, 67, pl. ii.
Spencer, J. W. 1895 A, 137 (B. americanus. This species?).
Sternberg, C. S. 1903 A, 511 ("buffalo").
    1903 D, 90 ("buffalo." This species?).
Stone, G. H. 1899 A, 55 ("bison").
Trouessart, E. L. 1905 A, 745.
Tscherski, J. D. 1892 A, 86 seq.
Underhill, B. M. 1910 A, 82 (Bos americanus).
Volk, E. 1911 A, 136, 210, pl. cxx (This species?).
Werth, E. 1917 A, 253.
White, C. A. 1885 A, 47 ("bison").
Whitney, J. D. 1862 A, 136 (Bos americanus).
    1866 A, 162 ("buffalo").
Wilson, T. 1901 A, 338 (B. americanus).
Winchell, N. H. 1910 A, 420, pl. xi, figs. 1, 2 (B. latifrons?).
Worthen, A. H. 1873 A, 308 ("buffalo").
    1890 A, 23 ("buffalo").
Wright, G. F. 1905 A, 18 ("bison." This species?).
    1911 A, 282 ("bison." This species?).
    1911 C, 42 ("bison." This species).
Wright, R. R. 1883 A, 316 (B. americanus).

Recent; greater part of North America (except Atlantic, Gulf, and Pacific coasts) north to Great Lakes and Great Slave Lake: Pleistocene; Ontario, Massachusetts, New York, New Jersey, Pennsylvania, Indiana, Illinois, Wisconsin, Kentucky, Texas, Oklahoma, Missouri, Kansas, Colorado, Iowa, Nebraska, Wyoming, Minnesota, South Dakota, Washington, Alberta.

Bison chaneyi Cook.

Cook, H. J. 1928 A, 34, figs. 1, 2.

Pleistocene; Texas.

Bison crassicornis Richardson.

Hay, O. P. 1902 A, 689.
Dall, W. H. 1896 A, 854.
Dall and Harris 1892 A, 264.
Dawson, J. W. 1894 D, 4.
Gilmore, C. W. 1908 A, 18, 31, pl. x; text-fig. 4.
Haug, E. 1911 A, 1873.
Hay, O. P. 1887 A, 53 ("buffaloes").
    1913 C, 179, pl. xiv.

Joleaud, L. 1920 A, 499.
Lambe, L. M. 1904 C, 31, 39, 51.
Lucas, F. A. 1901 A, 307.
Lydekker, R. 1898 D, 61 (Syn. of Bos priscus).
1912 D, 261 (Bos).
McClung, C. E. 1905 A, 158.
Matsumoto, H. 1918 D, 93, pls. xx, xxviii, xxix; text-figs. 1-3.
Merrill, G. P. 1907 A, 25.
Osborn, H. F. 1910 B, 481, 483, 490.
Quackenbush, L. S. 1909 A, 127.
Scharff, R. F. 1911 A, 67, 80.
Scott, W. B. 1913 A, 203, 420.
Trouessart, E. L. 1905 A, 745.
Whiteaves, J. F. 1903 A, 240.
Pleistocene; Alaska, Yukon.

Bison latifrons (Harlan).

Hay, O. P. 1902 A, 689 (B. latifrons, B. ferox).
Allen, G. M. 1926 A, 452.
Baker, F. C. 1920 A, 455.
Bárcena, M. 1882 A, 20 ("toro fosil." This species?).
Beddard, F. E. 1902 A, 319 (B. latifrons, B. ferox).
Blake, W. P. 1908 A, 67 ("Bos").
Brown, A. E. 1904 B, 66.
Cook, H. J. 1928 A, 36.
Deussen, A. 1924 A, 108.
Dollo, L. 1869 I, 685 (Bos).
Falconer, H. 1863 A, 53 (This species?).
1868 A, 223.
Felix and Lenk 1891 A, 126, 128, 138.
Foster, J. W. 1869 A, 238, 254.
1873 A, 89.
Frech, F. 1906 A, 477.
Frech and Geinitz 1903 A, 35 (This species?).
Freudenberg, W. 1921 A, 139.
1922 A, 5 (This species?).
Furlong, E. L. 1925 A, 139 (This species?).
Gervais, P. 1859 A, 365 (Bos).
Gidley, J. W. 1927 E, 274 (This species?).
Godman, J. D. 1860 A, 266, pl. ("fossil ox").
Haug, E. 1911 A, 1887.
Hay, O. P. 1910 D, 371.
1912 D, 652, pl. xi.
1913 C, 192, pl. xix.
1914 A, 327, pl. xlii, fig. 1.
1917 I, 213.
1919 D, 362, 363, 364.
1923 A, 480.
1924 D, 374 (B. latifrons); 199 (B. ferox).
1927 C, 281 ("long-horned bisons").
1927 D, 302 (Bos arizonica, Bison latifrons).
1928 B, 237.
Hay, R. 1890 A, 40, 42 (Bison. This species?).
Hrdlička, A. 1907 A, 17 ("Bos"); 18 (B. latifrons. This species?).
La Baume, W. 1909 A, 57.
Leidy, J. 1859 J, 181 ("broad-fronted bison").
Lucas, F. A. 1902 B, 260.
Lydekker, R. 1912 D, 262 (Bos).
Lyell, C. 1855 A, I, 348; II, 261 (Harlanus americanus. Species doubtful).
McAdams, W. 1883 A, lxxx (This species?).
McClung, C. E. 1905 A, 158.
Martin, H. T. 1927 A, 399 (Syn. of B. latifrons).
Matson and Clapp 1909 A, 136 (B. americanus. This species?); 137 (B. latifrons).
Matthew, W. D. 1909 B, 198.
Merriam, J. C. 1912 C, 221.
Merrill, G. P. 1907 A, 26.
Norton, O. D. 1875 A, 386 (Bos).
Osborn, H. F. 1905 E, 932.
1910 B, 607, fig. 212 (B. latifrons); 481, 483 (B. ferox).
Owen, R. 1845, Cat. Foss. Mam. Mus. Coll. Surg., 197 (Lophiodon bathygnathus).
1845 B, 548 (Sus americana. This species?).
Palacký, J. 1903 B, 317 (Harlanus americanus. This species?).
Peale, R. 1803 B, 84 ("great buffalo").
Plummer, J. T. 1843 A, 300, fig. 12 ("horns." Young of this species?).
Rath, G. 1886 A, 106 (Bos. This species?).
Rhoads, S. N. 1895 A, 245.
Rogers, A. F. 1924 A, 544 (B. ferox).
Schmidt, O. 1886 A, 187.
Schrader, F. C. 1915 A, 56 ("Bos").
Scott, W. B. 1913 A, 203, 420.
Sellards, E. H. 1915 D, 77.
1916 B, 102, 112.
Shaler, N. S. 1877 A, 197.
Shimek, B. 1902 A, 285.
1904 A, 305.
Trouessart, E. L. 1905 A, 745 (B. latifrons, B. ferox).
Villada, M. M. 1903 A, 448, pl. v (This species?).
Wilson, T. 1892 A, 629 (This species?).
1901 A, 322, 338 (This species?).
Yates, L. G. 1903 A, 101.
Pleistocene (Early and Middle); Kentucky, Ohio, Illinois?, South Carolina?, Georgia, Florida, Mississippi, Texas, Colorado?, Nebraska, Arizona, California.

Bison occidentalis Lucas.

Hay, O. P. 1902 A, 690.
Abel, O. 1914 A, 186, fig. 143.
Anonymous 1906 C, 711 (B. crassicornis).
Baker, F. C. 1920 A, 455.
Boule, M. 1923 A, 400.
Carman, J. E. 1917 A, 410.
Condon, T. 1902 A, 153, pl. xxix (Bos latifrons).
Cook, H. J. 1928 A, 36.
Cossmann, M. 1899 C, 85.
Dall and Harris 1892 A, 266 (B. antiquus).
Goddard, P. E. 1926 A, 259.
1927 A, 68 ("bison").
Haug, E. 1911 A, 1873, 1886.
Hay, O. P. 1913 B, 584 (B. kansensis).
1913 C, 167, pl. ix, figs. 3-4; pls. x-xiii; text-figs. 4-6.
1914 A, 34, 319, pl. xxxix, figs. 2, 3; pl. xl; text-fig. 102.
1917 C, 359 ("extinct bison").
1917 E, 68.
1918 B, 24.
1919 D, 364.
1923 A, 480.
1923 C, 1, pls. i, ii.
1924 D, 374 (B. occidentalis); 193, 204 (B. kansensis).

Hay, O. P. 1927 D, 302 (B. occidentalis); 278 (B. willistoni).
Hay, R. 1885 A, 98 (This species?).
Hilzheimer, M. 1920 A, 59, 78.
Holland, W. J. 1915 A, 225, pl. xliii (B. crassicornis).
Joleaud, L. 1920 A, 499.
Lull, R. S. 1919 A, 222.
Lydekker, R. 1912 D, 260 (Bos).
McClung, C. E. 1905 A, 157, fig. 10 (B. kansensis); 158 (B. occidentalis).
1908 A, 249, pl. xiv.
Martin, H. T. 1924 A, 277, pl. xxvi, fig. 2; pl. xxvii, figs. 5, 5*a*; 274 (B. kansensis).
Matsumoto, H. 1918 D, 85, pls. xxiv-xxviii, text-figs. 1-3.
1927 A, 51, 52, pl. xxv, figs. 3, 4; pl. xxvi, figs. 1-3 (B. o. curvicornis).
Merrill, G. P. 1907 A, 26.
Moodie, R. L. 1909 C, 123.
Osborn, H. F. 1909 D, 88.
1910 B, 607, fig. 213.
1922 G, 449.
Osgood, W. H. 1907 A, 65.
Pavlow, M. 1906 B, 55, pl. v, fig. (Syn. B. priscus).
Quackenbush, L. S. 1909 A, 91, 127, pl. xvii.
Scharff, R. F. 1911 A, 80.
Scott, W. B. 1913 A, 420, 589.
Trouessart, E. L. 1905 A, 745.
Upham, W. 1903 A, 33.
1903 B, 187 ("bison").
Werth, E. 1917 A, 253, fig. 3.
Williston, S. W. 1902 M, 313.
1905 A, 335.
Wilson, T. 1901 A, 305, fig. 2.
Winchell, N. H. 1907 A, 164 (B. latifrons).
1917 A, 139.
Worthen, A. H. 1890 A, 8 (Bos primigenius. Species doubtful).
Pleistocene; Kansas, Iowa, Nebraska, New Mexico, Minnesota, South Dakota, Manitoba, Alaska, Yukon.

Bison pacificus Hay.

Hay, O. P. 1927 D, 118, 212 (B. pacificus); 122 ("bison." This species?).
Pleistocene; California.

Bison regius Hay.

Hay, O. P. 1913 C, 192, pl. xviii; text-fig. 10.
Abel, O. 1914 A, 185, fig. 142 (B. latifrons).
Cook, H. J. 1928 A, 36.
Hay, O. P. 1914 A, 327, pl. xlii, figs. 2, 3.
1923 A, 15.
1924 D, 374.
1927 D, 302.
Lydekker, R. 1914 A, 631, fig. 1.
McClung, C. E. 1905 A, 159 (B. latifrons).
Martin, H. T. 1927 A, 397, pls. xlii, xliii.
Matthew, W. D. 1909 E, 198 (B. latifrons).
1921 E, 606, fig.
Osborn, H. F. 1920 A, 240, 243, fig.
Sternberg, C. H. 1909 C, 267, fig. 43 ("Bison").
Pleistocene; Kansas, Texas.

Bison sylvestris Hay.

Hay, O. P. 1915 A, 515, pl. xxx; text-fig. 1.
1923 A, 32, 257.
1924 D, 198, 208.
Pleistocene (Late Wisconsin); Ohio.

Bison taylori Hay and Cook.

Hay and Cook 1928 A, 36.
Pleistocene; New Mexico.

Bison texanus Hay and Cook.

Hay and Cook 1928 A, 31.
Pleistocene; Texas.

Bison sp. indet.

Adams, A. L. 1879 A, 116, 117 ("bison," B. priscus?).
Anonymous 1927 A, 477. Pleistocene; Texas, New Mexico.
Antevs, E. 1925 A, 75 ("bison"). Pleistocene (Walker River); Nevada.
Blake, J. H. 1874 A, 270 (B. latifrons?). Pleistocene; California.
Blake, W. P. 1884 A, 273.
Bolton, H. C. 1888 A, 123 ("buffalo").
Broadhead, J. C. 1870 B, xxiii (B. latifrons).
Cahn, A. R. 1922 A, 23.
Cannon, G. L. 1888 B, 59, 61 ("bison"). Pleistocene; Colorado.
1896 in Emmons, S. F. 1896 A, 260, 261 ("bison"). Pleistocene; Colorado.
Coleman, A. P. 1900 A, 329, 331 ("bison"). Pleistocene (Don beds); Ontario.
1901 A, 301 (B. americanus?).
1907 A, 1248 ("bison"). Pleistocene (Don beds); Ontario.
1913 B, 18, 20. Pleistocene (Don beds); Ontario.
1917 A, 359 ("bison").
Cook, H. J. 1912 D, 45. Pliocene (Snake Creek); Nebraska.
1925 A, 460. Pleistocene; Texas.
1926 D, 335, fig. 2. Pleistocene; Texas.
Dall, W. H. 1870 A, 238 ("fossil buffalo").
1870 B, 136 ("buffalo").
Dawson, G. M. 1901 A, 185 A (Bison? laticornis).
Diller, J. S. 1906 A, 11 ("bison"). Pleistocene (Potter Creek); California.
Figgins, J. D. 1925 A, 17. Pleistocene; Texas.
Figgins and Cook 1927 A, 477. Pleistocene; Texas, New Mexico, Oklahoma.
Freudenberg, W. 1910 A, 5. Pleistocene; Mexico.
Gidley, J. W. 1915 D, 20 ("Bison"). Pleistocene; Florida.
1924 A, 69. Pleistocene (Early); Nevada.
1926 C, 484. Pleistocene (Early); Arizona.
1928 B, 16 ("bison"). Pleistocene; Florida.
Gilbert, G. K. 1890 A, 303 ("ox"). Pleistocene (Lake Lahontan); Nevada.
Goddard, P. E. 1926 A, 258. Pleistocene; Texas.
Gregory, H. E. 1917 A, 82 ("Bison?"). Pleistocene; Arizona.
Habersham, J. 1846, in Hodgson, W. B. 1846 A 29 ("bos"). Pleistocene; Georgia.

Hay, O. P. 1914 A, 26.
1917 E, 45. Pleistocene (Vero); Florida.
1920 B, 115 (Illinois); 127 (Oklahoma); 131 (Texas).
1921 A, 600, 611. Pleistocene (Early); Colorado, Washington (This genus?).
1923 A, 480.
1924 B, 260 ("bison"). Pleistocene; Florida.
1926 D, 359.
1926 G, 129 ("bison"). Pleistocene (Walker River); Nevada.
1927 D, 301, 302, 309. Pleistocene; California, Idaho, Nevada, Iowa, New Mexico, Oklahoma, Oregon, Texas, Washington.
1928 C, 425, 429.
Hilgard, E. W. 1869 A, 82 ("buffalo"). Pleistocene; Louisiana.
1872 A, 14 ("buffalo").
Holland, W. J. 1908 A, 231 ("Bison").
Hrdlička, A. 1926 A, 7 ("buffalo").
Jones, J. C. 1928 A, 7 ("buffalo"). Pleistocene (Lahontan); Nevada.
Kellogg, R. 1922 A, 80. Pleistocene (San Pedro); California.
Lambe, L. M. 1912 B, 347 (B. americanus). Pleistocene; Alberta; 349 (B. crassicornis). Pleistocene; Yukon.
Lee, Stone, and Gale 1915 A, 173 ("ox"). Pleistocene (Lake Lahontan); Nevada.
Leidy, J. 1886 D, 275. Nicaragua.
Lyell, C. 1855 A, 348 ("ox").
McAdams, W. 1887 A, 35 ("buffalo").
McCornack, E. C. 1914 A, 15. Pleistocene; Oregon.
1920 A, 15. Pleistocene (Washtucna Lake); Washington.
McCourt, W. E. 1917 A, 70 ("bison"). Pleistocene; Missouri.
McGee, W J 1888 A, 35 ("bison").
1889 A, 303 ("ox"). Pleistocene (Lake Lahontan); Nevada.
Matthew, W. D. 1925 A, 97. Pleistocene (Early); Florida.
Matthew and Cook 1909 A, 367, 414.
Merriam, J. C. 1917 A, 437. Pliocene (Snake Creek); Nebraska.
Merriam and Stock 1921 A, 567. Pleistocene (Early); California.
1925 A, 10, 11. Pleistocene (Potter Creek); California.
Miller, L. H. 1912 A, 71. Pleistocene (Potter Creek Cave); California.
1925 A, 309 ("bison"). Pleistocene (McKittrick); California.
Murdoch, J. 1892 A, 56. Pleistocene (Point Barrow); Alaska.
Obalski, T. 1904 A, 216 ("bison").
Osborn, H. F. 1910 B, 474. Pleistocene (Washtucna Lake); Washington; 477. Pleistocene; California.
Parks, W. A. 1924 A, 38. Pleistocene (Late); Saskatchewan.
1925 A, 226 ("Bison"). Post-glacial; Saskatchewan.
Rhoads, S. N. 1903 A, 239. Pleistocene (Port Kennedy); Pennsylvania.
Russell, I. C. 1885 A, 238 ("ox"). Pleistocene (Lake Lahontan); Nevada.
Schmidt, E. 1872 A, 254 ("Bison"). Pleistocene (Table Mountain); California.
Sellards, E. H. 1916 B, 103. Pleistocene; Florida.
1916 C, 150, 158 ("bison"). Pleistocene; Florida.
1916 E, 16. Pleistocene; Florida.
1916 F, 9 (B. sp.).
Sinclair, W. J. 1904 A, 18 ("Bison sp.").
1904 B, 11. Pleistocene; Nevada.
1915 A, 77 ("bovid genus indet"). Pliocene (Snake Creek); Nebraska.
Smith, D. T. 1904 A ("ox"). Pleistocene (Lahontan); Nevada.
Stock, C. 1925 A, 113. Pleistocene (Upper San Pedro and caves); California.
Stone, G. H. 1899 A, 54 ("bison"?). Maine.
Tilton, J. L. 1910 A, 950.
Todd, J. E. 1918 A, 45 ("bison"). Pleistocene; Kansas.
Udden, J. A. 1901 A, 260 (B. latifrons).
Whiteaves, J. F. 1901 B, 185 (B. laticornis). Pleistocene; Klondike.
Wyman, J. 1875 A, 81 ("ox").

SIMOBISON Hay and Cook. New genus. Type *Bison figginsi* Hay and Cook.

Hay and Cook 1928 A, 33 (Bison).
Figgins, J. D. 1928 A, 19, fig. 7 ("extinct bison").
Pleistocene (Aftonian); Texas.

Order TILLODONTIA Marsh.

Hay, O. P. 1902 A, 715.
Abel, O. 1913 B, 711 (Tillodontidæ).
Ameghino, F. 1889 A, 1026 (Tillodonta).
1897 B, 261.
1901 A, 418 (Tillodonta).
1902 B, 10 ("tilodontes").
1902 D, 428 ("tillodontes").
1904 B, 52 (Tillodonta).
1906 A, 347 ("tillodontes").
Arldt, T. 1907 A, 238, 243.
1907 B, 452 ("tillodontier").
1907 D, 685.
1912 A, 686.
Baird, S. F. 1876 A, 305, 337.
Beddard, F. E. 1902 A, 506.
Case, E. C. 1899 B, 182.
Cope, E. D. 1875 Y, 447, 448.
1880 U, 151 ("tillodontes"); 152 (Tillodonta).
1885 BB, 72 (Tillodonta).
1891 N, 73, 75 (Tillodonta).
Delafontaine; M. 1875 A, 169.
Depéret, C. 1905 C, 703 ("tillodontes").
Gregory, W. K. 1910 A, 100, 292, 445.
1920 A, 171.
Hoernes, R. 1886 A, 664.

Höfer, H. 1911 A, 486.
Jaekel, O. 1911 A, 223 (Tillodonti).
Kingsley, J. S. 1925 A, 209.
Koken, E. 1893 B, 486 (Tillodonta).
Leche, W. 1902 A, 28.
Major, C. J. F. 1899 B, 68.
Matthew, W. D. 1909 C, 94, 97, 101.
1912 B, 186.
1918 H, 607.
1921 D, 214.
1928 B, 966, 977 ("tillodonts").
Osborn, H. F. 1898 U, 686.
1899 J, 415.
1901 D, 623.
1902 E, 356, fig. 1.
1907 G, 13, 151.
1909 D, 136.
1910 B, 633.
1925 B, 18.
Palacký, J. 1902 A, 3 ("tillodontien").
Reynolds, S. H. 1897 A, 365, 435, 511, 520.
Scharff, R. F. 1911 A, 244.
Schlosser, M. 1902 I, 738.
1905 A, 329.
1911 A, 102.
Scott, W. B. 1913 A, 267, 276.
Steinmann, G. 1907 A, 477.
Stromer, E. 1912 A, 177.
Tims, H. W. M. 1901 A, 283.
Trouessart, E. L. 1905 A, 547.
1897 B, 87.
Wallace, A. R. 1876 A, I, 139.
Weber, M. 1904 A, 468, 510, 513.
Weber and Abel 1928 A, 90, 168, 294.
Weber and Burlet 1927 A, 237.
Zittel and Schlosser 1911 A, 371 (Tillodontidæ).
1923 A, 450 (Tillodontidæ).

ESTHONYCHIDÆ Cope.

Hay, O. P. 1902 A, 715.
Ameghino, F. 1906 A, 347.
Arldt, T. 1907 D, 653.
1912 A, 700.
Matthew, W. D. 1921 D, 214.
Trouessart, E. L. 1905 A, 547.
Winge, H. 1917 A, 91, 100, 101 (Esthonychini).
1923 A, 123, 130 (Esthonychini).
Zittel and Schlosser 1911 A, 371, 413 (Tillodontidæ); 372 (Esthonychinæ).
1923 A, 450 (Esthonychinæ).

ESTHONYX Cope. Type *E. bisulcatus* Cope.

Hay, O. P. 1902 A, 715.
Abel, O. 1913 B, 711.
Beddard, F. E. 1902 A, 507.
Case, E. C. 1899 B, 182.
Chardin, T. 1922 A, 63, 80, pl. iii.
Depéret, C. 1908 A, 112.
1912 A, 707.
Granger, W. 1914 A, 204.
Gregory, W. K. 1910 A, 293.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 348.
Lemoine, V. 1889 A, 237.
Loomis, F. B. 1905 C, 296.
Matthew, W. D. 1909 C, 101.
1915 K, 420.
1918 H, 607.
1928 B, 966, 977.
Osborn, H. F. 1907 G, 151, fig. 116.
1909 D, 38, 45, 46.
1910 B, 125, 132, 523.
1912 G, 236, fig. 3.
1919 B, 558.
Palacký, J. 1902 A, 3.
Palmer, T. S. 1904 A, 271, 906.
Schlosser, M. 1898 B, 366.
1899 U, 462.
Seeley, H. G. 1886 A, 415.
Stehlin, H. G. 1905 A, 555.
Tims, H. W. M. 1901 A, 283.
Trouessart, E. L. 1905 A, 547.
Wallace, A. R. 1876 A, 1, 139.
Weber, M. 1904 A, 514.
Weber and Abel 1928 A, 168.
Winge, H. 1917 A, 100.
1923 A, 130, 212, 215, 216.
Zittel and Schlosser 1923 A, 451, 666.

Esthonyx acer Cope.

Hay, O. P. 1902 A, 715.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 36.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); New Mexico.

Esthonyx acutidens Cope.

Hay, O. P. 1902 A, 715.
Ameghino, F. 1904 A, 414, fig. 541.
Matthew, W. D. 1909 C, 94.
Schlosser, M. 1899 U, 462.
Trouessart, E. L. 1905 A, 547.
Lower Eocene (Wind River); Wyoming.

Esthonyx bisulcatus Cope.

Hay, O. P. 1902 A, 715.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 36.
Reeside, J. B. 1924 A, 46.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Esthonyx burmeisterii Cope.

Hay, O. P. 1902 A, 715.
Loomis, F. B. 1907 B, 357.
Matthew, W. D. 1909 C, 94.
Merrill, G. P. 1907 A, 37.
Reeside, J. B. 1924 A, 46 (E. burmeisteri).
Seeley, H. G. 1886 A, 415, fig.
Zittel and Schlosser 1911 A, 372, fig. 535.
1923 A, 450, fig. 572.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Esthonyx spatularius Cope.

Hay, O. P. 1902 A, 716.
Matthew, W. D. 1909 C, 94.
Reeside, J. B. 1924 A, 46 (E. spatularia).
Lower Eocene (Wasatch); New Mexico: (Wind River); Wyoming.

Esthonyx sp. indet.

Sinclair and Granger 1912 A, 60 (Fort Union?); Wyoming.

ANCHIPPODONTIDÆ Gill.

Hay, O. P. 1902 A, 716 (Includes Tillotheriidæ).
Ameghino, F. 1906 A, 347 (Tillotheriidæ).
Arldt, T. 1907 D, 685 (Tillotheridæ).
1912 A, 700.
Matthew, W. D. 1909 C, 94, 97, 101.
1909 D, 301.
1913 E, 791.
Trouessart, E. L. 1905 A, 547.
Weber and Abel 1928 A, 125 (Tillotheriidæ).
See citations under Tillotheriidæ).

ANCHIPPODUS Leidy. Type *A. riparius* Leidy.

Hay, O. P. 1902 A, 716.
Ameghino, F. 1889 A, 962.
Beddard, F. E. 1902 A, 507.
Cope, E. D. 1872 RR, 1.
1875 Y, 447.
Matthew, W. D. 1909 C, 97.
1913 E, 791.
1928 B, 977.
Palmer, T. S. 1904 A, 101, 906.
Trouessart, E. L. 1905 A, 547.
Wallace, A. R. 1876 A, I, 139.
Weber, M. 1904 A, 514.
Weber and Abel 1928 A, 168.

Anchippodus riparius Leidy.

Hay, O. P. 1902 A, 717.
Matthew, W. D. 1909 C, 97 (A. vetulus).
1913 E, 791.
Rhoads, S. N. 1903 A, 233.
Eocene; New Jersey.

TILLOTHERIIDÆ Marsh.

Marsh, O. C. 1875 C, 221.
Hay, O. P. 1902 A, 716 (Anchippodontidæ, in part).
Abel, O. 1919 A, 728.
1922 C, 291 ("tillotheriiden").
Baird, S. F. 1876 A, 337 (Tillotheridæ).
Matthew, W. D. 1913 E, 791.
1914 B, 387.
1921 D, 214.
Palmer, T. S. 1904 A, 774, 906 (Tillotheridæ).
Winge, H. 1917 A, 91, 99, 101 (Tillotheriidæ, Tillotheriini).
1923 A, 123, 129, 131, 195 (Tillotheriidæ, Tillotheriinæ).
Zittel and Schlosser 1911 A, 372 (Tillotheriinæ).
1923 A, 451 (Tillotheriinæ); 667 (Tillotheriidæ).
See citations under Anchippodontidæ.

TROGOSUS Leidy. Type *T. castoridens* Leidy.

Leidy, J. 1871 F, 114.
Hay, O. P. 1902 A, 716 (Anchippodus, part).
Granger, W. 1918 A, 148.
Haug, E. 1911 A, 1528 (Trogostus).
Matthew, W. D. 1909 C, 97, 101.
1913 E, 791.
Osborn, H. F. 1909 D, 52, 97.
1919 B, 558.
Palmer, T. S. 1904 A, 695, 906.

Trogosus castoridens Leidy.

Hay, O. P. 1902 A, 717 (Anchippodus minor, part).
Matthew, W. D. 1909 C, 97.
1913 E, 791.
Middle Eocene (Lower Bridger); Wyoming.

Trogosus minor (Marsh).

Hay, O. P. 1902 A, 717 (Anchippodus minor, part).
Matthew, W. D. 1909 C, 97.
1913 E, 791 (Palæosyops. This genus?).
Middle Eocene (Lower Bridger); Wyoming.

Trogosus vetulus Leidy.

Hay, O. P. 1902 A, 717 (Anchippodus).
Matthew, W. D. 1909 C, 97 (This genus?).
Middle Eocene (Bridger); Wyoming.

TILLOTHERIUM Marsh. Type *T. hyracoides* Marsh.

Hay, O. P. 1902 A, 716.
Abel, O. 1913 B, 711.
1914 A, 53.
1922 C, 291.
Ameghino, F. 1904 A, 413, 415.
Anonymous 1916 B, 474.
Baird, S. F. 1876 A, 337.
Beddard, F. E. 1902 A, 507.
Boule, M. 1891 A, 34.
Case, E. C. 1899 B, 183.
Delafontaine, M. 1875 A, 170.
Gregory, W. K. 1910 A, 292-294.
1920 A, 171.
Haug, E. 1911 A, 1528.
Höfer, H. 1911 A, 486.
Hoernes, R. 1886 A, 664.
Leche, W. 1887 A.
1905 A, 583.
Matthew, W. D. 1909 C, 97, 101.
1913 E, 491.

Matthew, W. D. 1918 H, 607.
1924 E, 748.
1928 B, 977.
Osborn, H. F. 1898 V, 206.
1909 D, 49, 50, 52.
1910 B, 155, 162, 523, fig. 61.
Palmer, T. S. 1904 A, 680, 906.
Schlosser, M. 1898 B, 366.
1911 A, 102.
Schmidt, O. 1886 A, 285.
Steinmann, G. 1907 A, 478.
Trouessart, E. L. 1905 A, 548.
Wallace, A. R. 1876 A, I, 139.
Weber, M. 1904 A, 514.
Weber and Abel 1928 A, 168.
Winge, H. 1917 A, 100.
1923 A, 130, 212.
Zittel and Schlosser 1911 A, 372.
1923 A, 450.

Tillotherium fodiens Marsh.

Hay, O. P. 1902 A, 716.
Abel, O. 1914 A, 53, fig. 26.
1922 C, 291.
Ameghino, F. 1904 A, 411, fig. 539.
1906 A, 347, fig. 180.
Beddard, F. E. 1902 A, 507, fig. 247.
Matthew, W. D. 1909 C, 97.
Schmidt, O. 1886 A, 286, fig. 50.
Trouessart, E. L. 1905 A, 548.
Weber, M. 1904 A, 512, fig. 385.
Weber and Abel 1928 A, 168, fig. 96.
Zittel and Schlosser 1911 A, 372, fig. 536.
1923 A, 450, fig. 573.
Middle Eocene (Bridger); Wyoming.

Tillotherium hyracoides Marsh.

Hay, O. P. 1902 A, 716.
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Tillotherium latidens Marsh.

Hay, O. P. 1902 A, 716.
Matthew, W. D. 1909 C, 97.
Middle Eocene (Bridger); Wyoming.

Tillotherium sp. indet.

Granger, W. 1918 A, 148 ("Tillotherium"). Middle Eocene (Huerfano); Colorado.
Hills, R. C. 1889 A, 221. Middle Eocene (Huerfano); Colorado.
Matthew, W. D. 1909 C, 97 (This genus?). Middle Eocene (Bridger); Wyoming.

Superorder GLIRES Linnæus.

Unless otherwise stated the name Rodentia was used by the authors here cited.

Hay, O. P. 1902 A, 717 (Glires).
Abel, O. 1901 B, 313 ("nagethiere").
1908 F (234) ("rodentier").
1910 B (186).
1912 F, 294, 302, 365, 507, 687.
1913 B, 728.
1914 A, 117 ("nagetiere").
1919 A, 786.
1920 A, 430.
Addison and Appleton 1915 A, 43.
Adloff, P. 1901 C, 425 ("nager").
1902 A, 197 ("nager").
1903 A, 359 ("rodentien").
1904 A, 144 ("rodentien").
1907 A, 534 ("nagetiere").
1910 A, 257 ("nagetiere").
1910 B, 232 ("rodentien").
1913 A, 238 ("nagetier").
1913 C, 11 ("rodent").
1917 A, 287 ("nagetiere").
Alezais, H. 1902 A, 585 ("rongeurs").
Allen, J. A. 1904 B, 135 ("rodents").
Ameghino, F. 1889 A, 1024.
1903 A, 83, 154.
1906 A, 239, 407 ("rongeurs").
Anderson, R. J. 1912 D, 252.
Anonymous 1897 B, 367.
Anthony, R. 1912 A ("rongeurs").
Arldt, T. 1907 A, 237, 243.
1907 B, 450, 452 ("rodentier").
1907 D, 679.
1912 A, 686.
Bardeleben, K. 1885 A, 28 ("nagethiere").
1885 B, 85 ("nager").
1889 A, 107 ("nager").
1889 B, 259 ("rodents").
Bardeleben, K. 1904 A, 111 ("nager").
Bardenfleth, K. S. 1913 A, 70 ("rodents").
Beddard, F. E. 1902 A, 458.
Bergmann, C. 1841 A, 205 ("nager").
Bertelli, D. 1909 A, 171 ("roditori").
Berthold, A. A. 1825 A, 907, 983 ("nager").
Beyer, H. 1908 A, 78, 81, 87, 95 ("nager").
1909 A, 23 ("nagetiere").
Black, N. 1900 A, 16.
Boas, J. E. V. 1914 B, 577 ("nager").
Bonaparte, C. L. 1832 A, 288 (Glires).
1833 A, 1044 ("rongeurs").
Bonsdorff, E. J. 1871 A, 318 (Glires).
Boule and Thevenin 1920 A, 223 ("rongeurs").
Branca, W. 1907 A, 10 ("nager").
1915 A, 43.
Brandt, J. F. 1885 A (Glires).
Braus, H. 1906 A, 304 ("nager").
Broom, R. 1897 C, 279 ("rodents").
1905 E, 75 ("rodents").
1911 C, 319.
1915 A, 162.
1926 A, 257, 262.
Brubacher, H. 1892 A, 1 ("nagethiere").
Carter, J. T. 1922 A, 599 ("rodents").
Carus, J. V. 1875 A, 90.
Carus and Engelmann 1861 A, 1298 (Rodentia).
Case, E. C. 1899 B, 182.
Caush, D. E. 1904 A, 157 ("rodents").
Chandler, A. C. 1914 B, 134.
Chapman, H. C. 1904 A, 149.
Chardin, T. 1922 A, 62 ("rongeurs").
Clark and Sonntag 1926 A, 454, 461, 463.
Cleland, J. 1863 B, 301.
Cockerell, Miller and Prinz 1914 A, 347 ("rodents").
Cope, E. D. 1885 BB, 72.
1891 N, 67, 90.

Coues, E. 1883 A, 68.
Cuvier, F. 1812 A, 268 (“rongeurs”).
1825 A, 141 (“rongeurs”).
Cuvier, G. 1825 A, v, 1, 1-65, pls. i-iii (“rongeurs”).
Dana, J. D. 1863 C, 334 (“rodents”).
Dependorf, T. 1907 C, 109 (“rodentien”).
Dollo, L. 1889 E, 196 (“rongeurs”).
1889 G, 675 (“rongeurs”).
Doran, A. H. G. 1878 A, 407.
Dublin, L. I. 1903 A, 735.
Duméril, A. M. C. 1806 A, 18 (Rosores).
Eggeling, H. 1904 A, 90 (“nager”).
Eimer, G. H. T. 1901 A, 260 (“nager”).
Elliot, D. G. 1901 A, 50.
Emery, C. 1890 A, 288 (“nagetiere”).
Erdl, M. 1843 A, 485 (“nager”).
Fischer, E. 1903 A, 697 (“nager”).
Fischer, J. B. 1829 A, 287.
Flower, W. H. 1870 A, 244.
Frassetto, F. 1903 A, 185.
1915 A.
Freund, P. 1892 A, 525 (“nagethiere”).
1893 A, 301 (“rodents”).
Frey, H. 1911 A, 401.
Fuchs, C. H. 1906 A, 17 (“nager”).
1914 A, 31 (“rodentien”).
Gadow, H. 1913 A, 122 (“rodents”).
Ganzer, H. 1908 A, 159, 161 (“nagetiere”).
Gaudry, A. 1906 A, 12 (“rogeurs”).
Gaupp, E. 1905 D, 1040 (“nager”).
1906 B, 850.
1908 A, 184 (“nager”).
1911 B, 101.
1911 D, 621 (“rodentier”).
1913 A, 63.
Gegenbaur, C. 1864 A, 182 (“nagethiere”).
1865 C, 563.
Gervais, P. 1852 A, 16 (“rongeurs”).
1853 B, 40 (“rongeurs”).
1859 A, 16 (“rongeurs”).
Ghigi, A. 1900 B, 99 (“roditori”).
Gidley, J. W. 1912 A, 286.
Giebel, C. G. 1855 A, 44.
1865 C, 427 (“nagethiere”).
1883 A (“nager”).
Gottlieb, H. 1914 A, 186.
Grant, M. 1904 B, 195 (“rodents”).
Gray, J. E. 1821 A, 302 (Rosores).
1825 B, 337.
Gregory, W. K. 1910 A, 324, 325, 330, 331, 445, 460, 465.
1914 G, 380 (“rodents”).
1916 A, 248 (“rodents”).
1920 A, 172, 241.
1921 A, 69.
Haeckel, E. 1873 A, 544.
Hasse and Schwarck 1870 A, 109.
Hay, O. P. 1912 D, 750.
1914 A, 449.
Hayek, H. 1926 A, 177 (“nager”).
Heilprin, A. 1887 A, 354.
Hilzheimer, M. 1913 A, 569 (“rodentier”).
Höfer, H. 1911 A, 431.
Hoernes, R. 1886 A, 688.
Hogben, L. T. 1919 A, 72, 75.
Howes, G. B. 1893 C, 591.
Hoyer and Babik 1924 A, 456 (“nager”).
Hrdlička, A. 1903 A, 381.
Hubrecht, A. A. W. 1908 A, 167.
Huene, F. 1912 F, 522 (“nager”).
Huxley, T. H. 1863 E, 553.
1870 F, 527.
Jaekel, O. 1911 A, 221 (Rodentii).
Kampfen, P. N. 1905 A, 552.
Klein, E. E. 1868 A (“rodentier”).
Köstlin, O. 1844 A (“nager”).
Krumbach, T. 1904 A, 273 (“nagetiere”).
Kükenthal, W. 1913 A, 679.
Lataste, F. 1887 A, 270 (“rongeurs”).
Leche, W. 1887 A.
1900 A, 1020 (Glires).
Le Damany, P. 1903 G, 322 (“rongeurs”).
Ledouble, A. F. 1906 A, 589 (“rongeurs”)
Leunis and Ludwig 1883 A, 211.
Lilljeborg, W. 1866 A, 9.
Longman, H. A. 1924 A, 10.
Loomis, F. B. 1921 A, 190 (“rodents”).
Lull, R. S. 1904 C, 2.
1906 B, 556.
1917 B, 295, 308, 322.
1918 C, 136 (“rodents”).
Lydekker, R. 1903 D, 125 (“rodents”).
Macartney, J. 1802, Lect. Comp. Anat., tab. i.
Major, C. J. F. 1899 B, 62.
Martins, C. 1857 A, 82 (“rongeurs”).
Matthew, W. D. 1905 D, 50.
1907 A, 215.
1909 C, 135.
1909 D, 300, 308.
1910 B, 44.
1910 G, 158.
1912 A, 156 (“rodents”).
1912 B, 185.
1912 C, 185.
1914 H, 350, 380 (“rodents”).
1915 A, 187, 228.
1915 K, 466.
1916 C, 522 (“rodents”).
1917 A, 574 (“rodents”).
1918 H, 614.
1918 I, 659.
1921 D, 214.
1924 C, 81 (“rodents”).
1928 B, 948, 961, 964, 976.
Matthew and Granger 1923 B, 4 (“rodents”).
Mead, C. S. 1906 A, 480.
Meckel, J. F. 1825 A (“nager”).
Meunier, S. 1903 A, 776 (“rongeurs”).
Miller, G. S. 1912 A, 481.
1912 B, 126.
1924 C, 173.
Miller and Gidley 1918 A, 432.
Mitchell, P. C. 1905 A.
Moodie. R. L. 1922 C, 347.
Mysberg, W. A. 1917 A, 654.
Oehngren, S. 1919 A, 177.
O'Harra, C. C. 1910 A, 86, 150.
1920 A, 88 (“rodents”).
Oken, L. 1823 A, 322 (“nagethiere”).
Osborn, H. F. 1899 J, 415.
1902 E, 356, fig. 1.
1905 I, 99, 101.
1905 N, 241 (“rodents”).
1907 G, 13, 144.
1907 H, 613 (Glires).

Osborn, H. F. 1909 D, 135.
1910 B, 630.
1915 D, 284 ("rodents").
1917 B, 320 ("rodents").
1925 B, 18.
1925 F, 962 ("rodents").
Owen, R. 1857 E.
1858 A, 22.
1868 A, 906.
Palacký, J. 1902 B, 142 ("nager").
1904 A.
Pander and Alton 1823 B, 5 ("nagethiere").
1824 A, 1 ("nagethiere").
Parker and Haswell 1897 A, 456, 515.
Perna, G. 1906 A, 122.
Peterson, O. A. 1912 B, 164.
Pictet, F. J. 1853 A, 234 ("rongeurs").
Pocock, R. I. 1916 G, 548.
Rehs, J. 1914 A, 2, 68.
Retterer, E. 1884 A, 483, 507 ("rongeurs").
Retterer and Vallois 1912 B, 410 ("rongeurs").
Reynolds, S. H. 1897 A, 553.
Schapiro, B. 1913 A, 220.
Scharff, R. F. 1911 A, 223 ("rodents").
Schlosser, M. 1898 B, 360.
1900 B, 301.
1900 G, 306 ("nagethiere").
1902 I, 705 ("nager").
1903 I, 178.
1905 A, 324 ("nager").
1910 A, 501 ("nager").
1911 A, 150.
Schmidt, O. 1886 A, 291.
Sclater, P. L. 1875 A, 209.
Scott, W. B. 1896 C, 308 ("rodents").
1905 B, 384 (Glires).
1913 A, 280, 689.
1916 A, 117 ("rodents").
1917 A, 181.
1928 B, 257 ("rodents").
Seeley, H. G. 1876 C, 176 ("rodents").
1886 A, 413, 514.
Serres, M. 1852 A, 145 ("rongeurs").
1852 B, 197 ("rongeurs").
1860 A, 301 ("rongeurs").
Sinclair, W. J. 1905 D, 384.
Steinmann, G. 1907 A, 476.
1909 A, 81 ("nagetiere").
Stromer, E. 1912 A, 168, 243.
1924 A, 255 ("nagetiere").
Taschenberg, O. 1899 A, 4436.
Terra, P. 1911 A, 295.
Thacker, A. G. 1922 A, 601, 603.
Thomas, O. 1920 A, 289 ("rodents").
Tims, H. W. M. 1901 A, 261.
1902 A, 321.
1903 A, 135 ("rodents").
1905 B, 1785.
1911 A, 294.
Todd, T. W. 1922 A, 268.
Toldt, C. 1905 A, 326 ("nagetiere").
Tomes, C. S. 1906 A, 46 ("rodents").
Tornier, G. 1891 A, 119, 171 ("nager").
Trouessart, E. L. 1904 A, 289.
Turner, H. N. 1847 A, 110.
Vallois, H. V. 1921 B, 975 ("rongeurs").
Van den Broeck, A. J. P. 1912 A, 782.
Vicy-d'Azyr, F. 1792 A, xcvii, 280, 626 (Rodentes).
Wagner, A. 1841 A, 111 ("nager").
Wagner, R. 1843 A, 12.
Wallace, A. R. 1876 A, I, 501; II, 229.
1894 A, 436.
Wallisch, W. 1906 A, 308 ("nagetiere").
Waterhouse, G. R. 1839 C, 172.
1839 D.
1842 A, 197, 344.
Weber, M. 1904 A, 470, 585.
Weber and Abel 1928 A, 238, 261, 895.
Weber and Burlet 1927 A.
Winge, H. 1924 A, 1.
Woodward, A. S. 1898 D, 330.
1923 C, 67.
Woodward, H. 1904 B, 162.
Worthmann, F. 1922 A, 307 ("nager").
Wortman, J. L. 1903 A, 430.
1920 A, 16.
1921 A, 186.
Zaaijer, T. 1894 A, 339.
Zittel, K. A. 1897 A, 133 ("nager").
Zittel and Schlosser 1911 A, 422.
1923 A, 506.

Order DUPLICIDENTATA Illiger.

Illiger, C. 1811 A, 91.
Hay, O. P. 1902 A, 734 (Duplicidentata); 735 (Lagomorpha).
Abel, O. 1912 F, 506.
1919 A, 787.
Adloff, P. 1910 A, 259 ("lagomorphen").
Ameghino, F. 1889 A, 107, 108 (Lagomorpha).
1906 A, 368 ("duplicidentés").
1912 B, 172 (Lagomorpha).
Anonymous 1897 B, 367 (Lagomorpha).
Arldt, T. 1907 D, 661 (Lagomorpha).
Beddard, F. E. 1902 A, 502.
Bonaparte, C. L. 1832 A, 290.
Branca, W. 1915 A, 43 (Duplicidentata, Lagomorpha).
Brandt, J. F. 1855 A.
Carus, V. 1875 A, 112 (Leporida).
Case, E. C. 1899 B, 183.
Chardin, P. T. 1928 A, 58 ("duplicidentés").
Cope, E. D. 1891 N, 70, 72, 90 ("lagomorphs").
Coues, E. 1883 A, 71, 73 (Duplicidentata, Lagomorpha).
Depéret, C. 1906 A, 620 ("lagomorphes").
Dice, L. R. 1917 A, 179 ("lagomorphs").
Freund, P. 1892 A, 527 (Lagomorpha).
Gidley, J. W. 1912 A, 284, 285 (Duplicidentata, Lagomorpha).
Gray, J. E. 1867 D, 220.
Gregory, W. K. 1910 A, 70, 325.
1914 G, 380 (Lagomorpha).
1920 A, 174, 241 (Lagomorpha).
Hay, O. P. 1914 A, 468 (Duplicidentata, Lagomorpha).
Hilzheimer, M. 1913 A, 569.
Hinton, M. A. C. 1923 A, 167 (Lagomorpha).
Höfer, H. 1911 A, 437 (Duplicidentata); 475 ("lagomorphen").
Hogben, L. T. 1919 A. 73

Jaekel, O. 1911 A, 221.
Kükenthal, W. 1913 A, 680.
Leche, W. 1887 A.
Ledouble, A. F. 1901 A, 240 ("lagomorphes").
Lilljeborg, W. 1866 A, 57 (Lagomorpha).
Lyon, M. W. 1904 A, 337.
Matthew, W. D. 1907 A, 215 (Lagomorpha).
1910 B, 72 (Lagomorpha).
1912 B, 186.
1914 H, 351 (Lagomorpha).
1915 A, 233 (Lagomorpha).
1915 K, 466 (Lagomorpha).
Miller, G. S. 1912 A, 483.
1912 B, 343 (Lagomorpha).
1924 C, 446 (Lagomorpha).
Osborn, H. F. 1907 G, 148.
1910 B, 534.
Peterson, O. A. 1926 A, 281 (Lagomorpha).
Reynolds, S. H. 1897 A, 366, 435, 478.
Scharff, R. F. 1911 A, 226 (Lagomorpha).
Schlosser, M. 1903 F, 144 (Lagomorpha).
1924 A, 53 (Lagomorpha).
Scott, W. B. 1913 A, 159.
Steinmann, G. 1907 A, 477 (Lagomorpha).
Stromer, E. 1912 A, 169.
Trouessart, E. L. 1904 A, 530 (Lagomorpha).
Van Bemmelen, J. F. 1914 A, 524.
Vicq-d'Azyr, F. 1892 A, 546 ("duplicidentes").
Wagner, A. 1841 A, 128.
Waterhouse, G. R. 1839 D, 93 (Leporina).
Weber, M. 1904 A, 489 (Lagomorpha); 491, 493 (Duplicidentata).
Weber and Abel 1928 A, 246, 254, 257, 265, 267.
Weber and Burlet 1927 A, xiv.
Winge, H. 1888 A, 156.
Wortman, J. L. 1920 A, 16 (Lagomorpha).
Zittel and Schlosser 1911 A, 433.
1923 A, 517.

Superfamily LEPOROIDÆ, new name.

Winge, H. 1924 A, 7, 13 (Leporidæ).

OCHOTONIDÆ Thomas.

Thomas, O. 1896 A (1897), 1026.
Hay, O. P. 1902 A, 735.
Ameghino, F. 1906 A, 368 (Lagomyidæ).
Arldt, T. 1907 D, 661 (Lagomyidæ).
1912 A, 744.
Beddard, F. E. 1902 A, 505 (Lagomyidæ).
Chandler, A. C. 1914 B, 134.
Cockerell and Miller 1914 A, 365.
Coues, E. 1883 A, 73 (Lagomyidæ).
Dice, L. R. 1917 A, 179.
Elliot, D. G. 1901 A, 266.
Flower, W. H. 1883 D, 421 (Lagomyidæ).
Gray, J. E. 1867 D, 219, 220 (Lagomyidæ).
Hay, O. P. 1923 A, 312.
Höfer, H. 1911 A, 441.
Lilljeborg, W. 1866 A, 58 (Lagomyidæ).
Lobley, J. L. 1908 A, 200 (Lagomyidæ).
Lyon, M. W. 1904 A, *passim.*
1904 B, 701.
Matthew, W. D. 1905 D, 54 (Lagomyidæ).
1907 A, 215.
Matthew, W. D. 1910 B, 72 (Lagomyidæ).
1914 H, 351.
1915 A, 228 ("picas").
Miller, G. S. 1912 B, 343.
1924 C, 446.
Osborn, H. F. 1910 B, 191, 534 (Lagomyidæ).
Palmer, T. S. 1904 A, 758, 860.
Roger, O. 1896 A, 141 (Lagomyidæ).
Schlosser, M. 1903 F, 144 (Lagomyidæ).
1924 A, 48, 52 (Lagomyidæ).
Schwarz, E. 1924 A, 421.
Stromer, E. 1926 A, 127.
Trouessart, E. L. 1904 A, 530.
Wallace, A. R. 1876 A, II, 242 (Lagomyidæ).
Weber, M. 1904 A. 494 (Lagomyidæ); 491, 494 (Ochotonidæ).
Weber and Abel 1928 A, 266, 268, 293.
Winge, H. 1888 A, 156 (Lagomyidæ).
Woodward, A. S. 1898 B, 377 (Lagomyidæ).
Zittel and Schlosser 1911 A, 433.
1923 A, 517, 518.

BRACHYLAGUS Miller. Type *Lepus idahoensis* Merriam.

Miller, G. S. 1900, Proc. Biol. Soc. Wash., XIII, 157.
Hay, O. P. 1921 A, 630.
Lyon, M. W. 1904 A, 337.
Palmer, T. S. 1904 A, 142, 850.

Brachylagus sp. indet.

Gidley, J. W. 1922 B, 120, 127, pl. xxxv, fig. 11 (This genus?). Pleistocene (San Pedro Valley); Arizona.
Hay, O. P. 1927 D, 136. Pliocene? (San Pedro Valley); Arizona.

PRAOTHERIUM Cope. Type *P. palatinum* Cope.

Cope, E. D. 1871 I, 93.
Hay, O. P. 1902 A, 735 (Ochotona, in part).

Praotherium palatinum Cope.

Cope, E. D. 1871 I, 94, 102, fig. 20.
Hay, O. P. 1902 A, 735 (Ochotona).
Baker, F. C. 1920 A, 208, 214, 397 (Ochotona).
Dice, L. R. 1923 B, 260.
Hay, O. P. 1923 A, 312 (Ochotona).
Rhoads, S. N. 1903 A, 246 (Ochotona).
Pleistocene (Early); Pennsylvania.

OCHOTONA Link. Included *O. pusilla, alpina,* and *ochotona.*

Hay, O. P. 1902 A, 735.
Adams, C. C. 1905 A, 60.
Allen, J. A. 1892 A (Lagomys).
1903 A.
Arldt, T. 1907 D, 258 (Lagomys).
Beddard, F. E. 1902 A, 505 (Lagomys).
Boas, J. E. V. 1910 A, 445 (Lagomys).
Bonhote, J. L. 1905 A, 205.

Bronn, H. G. 1849 A, 714 (Lagomys).
Chardin, P. T. 1928 A, 56 (Lagomys).
Cockerell and Miller 1914 A, 365, figs. 68-73.
Cope, E. D. 1880 U, 158 (Lagomys).
1895 G, 596 (Lagomys).
Coues, E. 1883 A, 80 (Lagomys).
Cuvier, F. 1825 A, 154, pl. li ("lagomys").
Cuvier, G. 1825 A, IV, 200; V, 1, 26 (Lagomys).
Depéret, C. 1892 A, 55 (Lagomys).
Elliot, D. S. 1901 A, 266.
Fischer, J. B. 1829 A, 377 (Lagomys).
Frech, F. 1906 A, 484.
Frech and Geinitz 1903 A, 36 (Lagomys).
Gervais, P. 1852 A, 31 (Lagomys).
1859 A, 49 (Lagomys).
Giebel, C. G. 1883 A, 152 (Lagomys).
Gray, J. E. 1867 D, 220 (Lagomys).
Haug, E. 1911 A, 1886 (Lagomys).
Hay, O. P. 1923 A, 316.
Heilprin, A. 1887 A, 28, 362, 364 (Lagomys).
Höfer, H. 1911 A, 439, fig. 1.
Howell, A. H. 1924 A, 7.
Hue, E. 1907 A, pl. xliv (Lagomys).
Kampfen, P. N. 1905 A, 555.
Leche, W. 1921 A, 70 (Lagomys).
Lilljeborg, W. 1866 A, 58 (Lagomys).
Lobley, J. L. 1908 A, 196 (Lagomys).
Lönnberg, E. 1910 A, 120.
Lyon, M. W. 1904 A, *passim.*
1904 B, 701.
Matschie, P. 1901 A, 316.
Matthew, W. D. 1910 B, 72 (Lagomys).
Miller, G. S. 1912 B, 343.
1924 C, 446.
Nehring, A. 1880 A (Lagomys).
1901 C, 465.
Osborn, H. F. 1910 B, 316, 469, 534 (Lagomys).
Osborn, H. F. 1916 B, 540 (Lagomys)
Owen, R. 1845 B, 401 (Lagomys).
1868 A, 887 (Lagomys).
Palmer, T. S. 1904 A, 468, 860.
Pander and Alton 1824 A, 2 (Lagomys).
Pictet, F. J. 1853 A, 257 (Lagomys).
Schlosser, M. 1903 F, 142 (Lagomys).
1924 A, 49, 52.
Scott, W. B. 1913 A, 153.
1916 A, 117 ("pikas").
Taylor, W. P. 1916 A, 471.
Tornier, G. 1891 A, 119 (Lagomys).
Trouessart, E. L. 1904 A, 532.
Vicq-d'Azyr, F. 1792 A, 578, 590 ("pika").
Waterhouse, G. R. 1839 C, 172 (Lagomys).
1842 A, 197 (Lagomys).
Weber, M. 1904 A, 494, 508 (Ochotona, Lagomys).
Weber and Abel 1928 A, 270, 293.
Zittel and Schlosser 1911 A, 433.
1923 A, 517.

Ochotona princeps (Richardson).

Richardson, J. 1828, Zool. Jour., III, 520 [Lepus (Lagomys)].
Elliot, D. G. 1901 A, 267, fig. 61.
Gidley, J. W. 1913 B, 96 (Ochotora. This species?).
Hay, O. P. 1923 A, 350.
Howell, A. H. 1924 A, 10, pls. iii-vi.
Miller, G. S. 1912 B, 344.
1924 C, 447.
Recent, Alberta: Pleistocene; Maryland?

Ochotona sp. indet.

Gidley, J. W. 1920 B, 282 ("picas"). Pleistocene (Middle); Maryland.

LEPORIDÆ Gray.

Gray, J. E. 1821 A, 304.
Hay, O. P. 1902 A, 735.
Abel, O. 1926 B, 359 ("leporiden").
Anthony, R. 1913 A, 257.
Arldt, T. 1907 D, 662.
1912 A, 698, 744.
Beddard, F. E. 1902 A, 502.
Boas, J. E. V. 1909 A, 536 ("hasen").
Brandt and Woldrich 1887 A, 89 (Leporinæ).
Burne, R. H. 1891 A, 160 ("rabbits").
Chandler, A. C. 1914 B, 134.
Cockerell and Miller 1914 A, 365.
Cope, E. D. 1880 U, 156.
Coues, E. 1883 A, 73.
Cuvier, F. 1825 A, 152 ("lièvres").
Cuvier, G. 1825 A, V, 1, 24, 43, pl. i ("lièvres").
Depéret, C. 1907 B ("lièvres").
1908 A, 307.
1912 A, 708 ("léporidés").
Doran, A. H. G. 1878 A, 417.
Elliot, D. G. 1901 A, 269.
Emery, C. 1890 A, 291 ("leporiden").
Fretts, G. P. 1909 A, 115 ("hasen").
Freund, P. 1893 A, 306.
Ganzer, H. 1908 A, 161 ("leporiden").
Gervais, P. 1852 A, 20 (Lepusidæ).
1859 A, 46 ("leporides").
Giebel, C. G. 1878 C, 853 ("hasen").
1883 A ("leporinen").
Gray, J. E. 1825 B, 341.
1867 D, 219, 220.
Hay, O. P. 1914 A, 468.
1923 A, 312.
Heilprin, A. 1887 A, 420 ("hares").
Hoernes, R. 1886 A, 688.
Höfer, H. 1911 A, 437.
Honigmann, H. L. 1913 A, 293 ("leporiden").
Krumbach, T. 1904 A, 274 ("leporiden").
Ledouble, A. F. 1901 A, 240 ("léporidés").
Leunis and Ludwig 1883 A, 230.
Lilljeborg, W. 1866 A, 59.
Lobley, J. L. 1908 A, 200, 205.
Lull, R. S. 1904 C, 2, 4.
Lyon, M. W. 1904 A, *passim.*
1904 B, 701.
Matthew, W. D. 1901 B, 370.
1905 D, 53.
1907 A, 215.
1909 C, 104, 105, 108, 110, 113, 116, 119.
1910 B, 72.
1914 H, 351.
1915 A, 228 ("rabbits"); 233 (Leporidæ).
1915 K, 466, fig. 17 ("rabbits").
1928 B, 977 ("rabbits").
Meckel, J. F. 1825 A ("hasen").
Miller, G. S. 1912 A, 484.
1912 B, 345.
1920 B, 190.

Miller, G. S. 1924 C, 449.
Osborn, H. F. 1909 D, 61, 66, 68.
    1910 B, 620.
Owen, R. 1868 A, 888.
Palmer, T. S. 1904 A, 750, 850.
Pander and Alton 1823 B, 6 ("hasen").
Pictet, F. J. 1853 A, 255 ("léporins").
Reynolds, S. H. 1897 A, 542 ("hares," "rabbits").
Scharff, R. F. 1911 A, 224.
Schlosser, M. 1903 F, 144.
    1903 I, 211, 219 ("leporiden").
    1911 A, 166 ("leporiden").
    1924 A, 48.
Scott, W. B. 1916 A, 117 ("rabbits").
    1917 A, 121, 134, 144 ("rabbits").
Seeley, H. G. 1886 A, 514 ("rabbits").
Seton, E. T. 1909 A, 621.
Stromer, E. 1906 A, 216.
Taschenberg, O. 1899 A, 4600.
Terra, P. 1911 A, 298.
Trouessart, E. L. 1904 A, 533.
Turner, H. N. 1847 A, 110 ("hares").
Virchow, H. 1916 C, 255 ("kaninchen").
Wallace, A. R. 1876 A, II, 242.
    1894 A, 436.
Waterhouse, G. R. 1839 C, 174.
    1842 A, 197, 199.
Weber, M. 1904 A, 491, 494.
Weber and Abel 1928 A, 267, 268, 270, 293.
Winge, H. 1924 A, 7, 13 (Leporini).
Woodward, A. S. 1898 B, 377.
Zaaijer, T. 1894 A, 340 (Leporinæ).
Zittel and Schlosser 1911 A, 433.
    1923 A, 517, 518, 670.

Panolax Cope. Type *P. sanctæfidei* Cope.

Cope, E. D. 1874 U, 151.
Hay, O. P. 1902 A, 736.
Dice, L. R. 1923 A, 191.
Haug, E. 1911 A, 1706.
Matthew, W. D. 1909 C, 119.

Panolax sanctæfidei Cope.

Cope, E. D. 1874 U, 151.
Hay, O. P. 1902 A, 736.
Dice, L. R. 1923 A, 192.
Matthew, W. D. 1909 C, 116.
Merrill, G. P. 1907 A, 53.
    Upper Miocene (Sante Fe); New Mexico.

Lepus Linnæus. Type *L. timidus* Linnæus.

Hay, O. P. 1902 A, 736.
Adloff, P. 1910 A, 257.
    1913 A, 238 ("kaninchen").
Aichel, O. 1919 A, 193.
Alezais, H. 1902 A, 585 ("lièvre").
    1902 B, 87 ("lièvre").
Allen, J. A. 1892 A.
    1903 A.
Altmann, F. 1925 A, 108.
Ameghino, F. 1909 A, 78, fig. 59.
Arldt, T. 1907 B, 451.
    1907 D, 662.
Bardeleben, K. 1906 A, 141.
Beddard, F. E. 1902 A, 502.
Beer, G. R. 1926 A, 350, fig. 124.
Bensley, B. A. 1902 A, 4.
Bertelli, D. 1909 A, 171.
Berthold, A. A. 1825 A, 913, 985.
Beyer, H. 1908 A, 95 ("hasen").
Boas, J. E. V. 1910 A, 439 ("hasen").
Bradley, O. C. 1906 B, 529 ("rabbit").
Brandt and Woldrich 1887 A, 89.
Brauer, A. 1914 A, 282.
Braus, H. 1906 A, 268.
Bronn, H. G. 1848 A, 639.
    1849 A, 714.
Broom, R. 1926 A, 262 ("rabbit").
Brubacher, H. 1892 A, 3.
Burne, R. H. 1891 A, 161, figs.
Cleland, J. 1863 B, 301 ("hare").
Cope, E. D. 1880 U, 158.
Coues, E. 1883 A, 75.
Coyle, R. F. 1909 A, 588 ("rabbit").
Cuvier, F. 1812 A, 294, pl. xv, fig. 20 ("lièvres").
    1825 A, 152, pl. 1 ("lièvres").
Cuvier, G. 1805 A.
Depéret, C. 1907 B.
Depéret, C. 1909 A, 141.
    1912 A, 708.
Dieterich, K. 1841 A, 81.
Doran, A. H. G. 1878 A, 417, pl. lx.
Eggeling, H. 1904 A, 96.
Eimer, G. H. T. 1901 A. 192.
Elliot, D. G. 1901 A, 269.
Erdl, M. 1843 A, 529, pl. i.
Fawcett, E. 1911 A, 400, fig. 23 ("rabbit").
    1917 A. 327.
Fischer, J. B. 1829 A, 370.
Foote, J. S. 1916 A, 142, pl. xix.
    1921 A, 10, pl. iii, fig. 23.
Fretts, G. P. 1909 A, 115.
Freund, P. 1892 A, 532, pls. xxii, xxiii.
    1893 A, 307.
Frey, H. 1911 A, 401.
Fuchs, H. 1905 B, 16, figs. ("kaninchen").
    1906 A, 1 ("kaninchen").
    1909 D, 22, 42, 72, 158, 189, 228, figs. 9, 14, 16, 29, 39-41, 54 ("kaninchen").
    1912 D, 146.
Gaupp, E. 1905 D, 1041.
    1908 A, 184.
    1908 C, 683.
    1910 C, 336.
    1911 B, 101.
    1911 E, 336 ("kaninchen").
    1912 B, 219.
    1913 A, 14, 103, figs. 6, 8, 12, 64, 65.
Gegenbaur, C. 1864 C, 183 ("kaninchen").
Geikie, J. 1914 A, 322 ("hare").
Geinitz, E. 1903 A.
    1904 A.
Gervais, P. 1852 A, 29.
    1859 A, 47.
Giebel, C. G. 1883 A, pls. xxvi, xlv, xlvi, lviii, lxv, lxxi, lxxvii, lxxxv, xcii.

Gottlieb, H. 1914 A, 203.
Gray, J. E. 1867 D, 222.
Gregory, W. K. 1915 D, 370, fig. 12.
Haller, G. 1922 A ("kaninchen").
Hasse and Schwarck 1870 A, 109.
Haug, E. 1911 A, 1705.
Heilprin, A. 1887 A, 362, 364, 365.
Heinick, P. 1908 A, 390.
Himstedt, R. 1870 A, pl. xi.
Hinton, M. A. C. 1923 A, 168.
Höfer, H. 1911 A, 437, pl. xix, figs. 1-3.
Hoernes, R. 1886 A, 688.
Hommes, J. H. 1924 A, 24, figs. 39, 40, 42, 48.
Honigmann, H. L. 1913 A, 293.
Howes, G. B. 1891 A, 156, pl. xiv, fig. 3.
1893 C, 589, fig. 1.
1895 A, 521 ("rabbit").
1895 B, 736.
Hoyer and Babik 1924 A, 456, fig. 9 ("kaninchen").
Hue, E. 1907 A, pls. xlviii, lxxxiv, xcviii, cxii, cxlix.
Huxley, T. H. 1879 A, 396, pl. viii.
Joleaud, L. 1919 A, 711-712, fig. 8.
1919 D, 412.
Kampfen, P. N. 1905 A, 553, figs. 59, 60.
Kingsbury, B. F. 1926 A, 89 ("rabbit").
Kjellberg, K. 1904 A, 163 ("kaninchen").
Klatt, B. 1912 A, 155 ("kaninchen").
Klein, E. E. 1868 A, 81.
Köstlin, O. 1844 A.
Kraglievich, L. 1926 C, 61, 67.
Krumbach, T. 1904 A, 274, figs. 1, 2.
Lapicque and Girard 1907 A, 1015 ("lapins").
Leche, W. 1887 A, pl. xcvi, text-figs. 2-4.
Le Damany, P. 1903 C, 278 ("lapin").
1903 D, 352 ("lapin").
1903 F, 402, figs. 1, 3, 4 ("lapin").
1903 G, 145, 316, figs. 11, 22 ("lapin").
Ledouble, A. F. 1901 A, 241.
1903 A, 642 ("lapins").
Lepkowski, W. 1897 A, 584, figs. 12-18 ("kaninchen").
Leunis and Ludwig 1883 A, 231.
Lewis, F. T. 1906 A, 507 ("rabbit").
Lubosch, W. 1911 A, 318 ("kaninchin").
Lubsen, J. 1905 A, 462, figs. 23-25.
Lull, R. S. 1922 C, 603.
Lyon, M. W. 1904 A.
Mackenzie, W. 1911 A, 363.
Matschie, P. 1901 A, 308.
Matthes, E. 1921 C.
Matthew, W. D. 1907 A, 175, 177, 178.
1909 C, 110.
1910 B, 72.
1915 K, 403.
1924 C, 87.
Mead, C. S. 1906 A, 480.
1909 A, 197.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
Merriam, J. C. 1911 B, 215.
Meunier, S. 1903 A, 776 ("lapins").
Miller, G. S. 1912 A, 495.
1912 B, 345.
1924 C, 449.
Moodie, R. L. 1922 C, 347.
Mysberg, W. A. 1917 A, 654.
Nehring, A. 1880 A.
Nelson, E. W. 1909 A.
Noordenbos, W. 1905 B, 374 ("kaninchen").
Nunn, E. 1882 A, 158, pl. ii, fig. 1 ("rabbit").
O'Harra, C. C. 1910 A, 88, 131.
Osborn, H. F. 1909 D, 128.
1910 B, 620.
1912 G, 246, 249.
1916 B, 541.
Owen, R. 1845 B, 400, pl. civ; pl. cix, fig. 1.
1868 A, 889, fig. 300.
Palmer, T. S. 1904 A, 373, 850.
Pander and Alton 1823 B, 6, pl. iii ("hasen").
1824 A, 256.
Paramore, R. H. 1910 A, 1460, fig. 13 ("rabbit").
Parker, W. K. 1869 A, 505.
Parker and Haswell 1897 A, 418, figs. 1017-1036.
Paulli, S. 1900 B, 513, figs. 26-28.
Perna, G. 1906 A, 138, pl. vi, fig. 24.
Pictet, F. J. 1853 A, 256.
Pouchet and Chabry 1884 A, 166 ("lapin").
Reiniger, A. 1900 A, 5.
Retterer, E. 1884 A, 483 ("lapin").
Retterer and Vallois 1912 B, 410 ("lapin").
Retzius, A. 1837 A, 489, pl. xxii, fig. 2.
Römer, F. 1907 A, 74.
Schapiro, B. 1913 A, 218.
Scharff, R. F. 1895 A, 446, 467.
1911 A, 226.
Schlosser, M. 1900 G, 306.
1902 I, 738.
1902 J, 134, 231.
1903 F, 142.
1903 I, 211.
Schumann, A. 1904 A, 283.
Scott, W. B. 1913 A, 164.
Seeley, H. 1872 A, 276 ("rabbits").
1876 C, 156 ("rabbits").
Seton, E. T. 1909 A, 621.
Shore, T. W. 1887 A, 364.
Simpson, G. G. 1926 D, 248.
Spurrell, H. G. T. 1906 A, 114 ("hare").
Stach, J. 1905 A, 283, figs. 1-6 ("kaninchen").
Taschenberg, O. 1899 A, 4600.
Terra, P. 1911 A, 298, fig. 120.
Tims, H. W. M. 1902 A, 337.
1903 A, 143.
Toldt, C. 1905 A, 334, figs.
Tornier, G. 1891 A, 180 ("kaninchen").
Tourneux, F., and J. P. 1912 A, 85, figs. 19-23 ("lapin").
Trouessart, E. L. 1904 A, 540.
Troxell, E. L. 1921 C, 342, fig. 3.
Van Bemmelen, J. F. 1914 A, 524.
Van den Broeck, A. J. P. 1912 A, 783.
Vicq-d'Azyr, F. 1792 A, 546, 563, 595.
Voit, M. 1909 A, pls. xxxv-l.
Wagner, A. 1841 A, 128.
Wallace, A. R. 1876 A, I, 144, 145.
Waterhouse, G. R. 1839 C, 172.
1839 D, 91.
1842 A, 197.
Weber, M. 1904 A, 494.
Weber and Burlet 1927 A, figs. 58, 190.
Winge, H. 1888 A, 111, 139, 156.
Woodward, A. S. 1908 B, 377.
Zittel and Schlosser 1911 A, 433.

Zittel and Schlosser 1923 A, 517, 672.
Zondek, M. 1895 A, 500 ("kaninchen").

Lepus americanus (Erxleben).

Erxleben, J. C. P. 1777, Syst. Regni. Anim., I, 330.
Brown, B. 1908 A, 198, pl. xxi.
Elliot, D. G. 1901 A, 273.
Frech, F. 1906 A, 484.
Gidley, J. W. 1913 B, 96 (This species?).
Hay, O. P. 1914 A, 32.
1920 B, 93.
1923 A, 350, 395.
1924 D, 252.
Miller, G. S. 1912 B, 347.
1924 C, 452.
Nelson, E. W. 1909 A, 87, pl. vi, figs. 1-4; text-fig. 8.
Peterson, O. A. 1926 A, 281.
Seton, E. T. 1909 A, 621, 653, pls. xlii-xliv; text-figs. 175-176, map 37.

Recent; northern half of North America: Pleistocene; Pennsylvania, Maryland, Tennessee.

Lepus benjamini Hay.

Hay, O. P. 1921 A, 628, pl. cxxi, figs. 1-5*b*.
1923 A, 14.
1927 D, 129.

Pleistocene (Nebraskan?); Arizona.

Lepus californicus Gray.

Gray, J. E. 1837, Charlesworth's Mag. Nat. Hist., I, 586 (L. californica).
Elliot, D. G. 1901 A, 291.
Kellogg, L. 1912 A, 163.
Lyon, M. W. 1904 A, *passim*, with figs.
Miller, G. S. 1912 B, 353.
1924 C, 458.
Miller, L. H. 1912 A, 70.
Nelson, E. W. 1909 A, 129, pl. vii, fig. 1; pl. viii, fig. 1.
Sinclair, W. J. 1903 A, 711.
1904 A, 17.

Recent; Oregon and California, New Mexico: Pleistocene (Potter Creek Cave); California.

Lepus californicus orthognathus Dice.

Dice, L. R. 1925 A, 126, fig. 3.
Hay, O. P. 1927 D, 184.

Pleistocene (La Brea); California.

Lepus giganteus Brown.

Brown, B. 1908 A, 199, pl. xxi.
Hay, O. P. 1914 A, 32.
1924 D, 252.

Pleistocene (Middle); Arkansas.

Lepus macrocephalus Matthew.

Matthew, W. D. 1907 A, 172, 214.
Abel, O. 1926 B, 359.
Matthew, W. D. 1909 C, 113.
O'Harra, C. C. 1920 A, 156.
Schlosser, M. 1924 A, 48.

Lower Miocene (Harrison); South Dakota.

Lepus primigenius Matthew.

Matthew, W. D. 1907 A, 172, 216.
1909 C, 113.
O'Harra, C. C. 1920 A, 156.

Lower Miocene (Harrison); South Dakota.

Lepus townsendii Bachman.

Bachman, J. 1839, Jour. Acad. Nat. Sci. Phila., VIII, pt. 1, 90, pl. ii.
Elliott, D. G. 1901 A, 277 (L. campester).
Hay, O. P. 1914 A, 473 (L. campester).
1927 D, 243 (L. campestris).
Lyon, M. W. 1904 A, *passim*, with figs. (L. campester).
McCornack, E. C. 1920 A, 23 (L. campester).
Matthew, W. D. 1902 F, 320 (L. campester. This species?).
Miller, G. S. 1912 B, 346 (L. campester).
1924 C, 451.
Nelson, E. W. 1909 A, 74, pl. iv, fig. 3; pl. v, fig. 3 (L. campester).
Osborn, H. F. 1910 B, 460 (L. campester).
Seton, E. T. 1909 A, 654, pl. xlvi; text-figs. 177, 178, map 38 (L. campester).
Stock, C. 1925 A, 195 (L. campester. This species?).

Recent; western Canada and United States: Pleistocene; Oregon.

Lepus washingtonii klamathensis Merriam, C. H.

Merriam, C. H. 1899, N. A. Fauna, No. 16, 100 (L. klamathensis).
Elliot, D. G. 1901 A, 276 (L. klamathensis).
Hay, O. P. 1927 D, 214.
Kellogg, L. 1912 A, 164 (L. "a." klamathensis).
Miller, G. S. 1912 B, 350.
1924 C, 454.
Miller, L. H. 1912 A, 70 (L. klamathensis).
Nelson, E. W. 1909 A, 107.
Sinclair, W. J. 1903 A, 711 (L. klamathensis).
Stock, C. 1925 A, 113.

Recent; Oregon, California: Pleistocene (Potter Creek Cave); California.

Lepus sp. indet.

Barbour and Cook 1917 B, 180. Pliocene (Valentine); Nebraska.
Cook, H. J. 1912 D, 40. Miocene (Lower Harrison); Nebraska.
Frick, C. 1921 A, 293. Pleistocene (Bautista); California.
Gidley, J. W. 1918 C, 180 (This genus?). Late Tertiary (Flaxville); Montana.
1920 B, 282 ("rabbits"). Pleistocene (Middle); Maryland.
1922 B, 120, 127, pl. xxxv, figs. 11-13, 15. Pleistocene (San Pedro Valley); Arizona.
1927 A, 274. Pleistocene; Florida.
Hay, O. P. 1923 A, 321, 350. Pleistocene: Pennsylvania, Maryland.
1927 D, 274. Pleistocene; Arizona, California, Florida, Washington.
1928 C, 425.
Lawson and Palache 1902 A, 390. Pliocene (Siesta); California.

Matthew, W. D. 1907 A, 172 (Lower Rosebud); South Dakota.
1909 C, 116.
Merriam, J. C. 1913 E, 383.
1914 D, 14. Pleistocene (Siesta); California.
1917 A, 428. Pliocene (Rattlesnake); Oregon.
430. Pliocene (Ricardo); Oregon.
Merriam and Sinclair 1907 A, 196. Miocene (Mascall?); Oregon.
Miller, L. H. 1912 A, 70, 73. Pleistocene (Fossil Lake); Oregon.
Shufeldt, R. W. 1913 B, 159, pl. x, figs. 27-30. Oregon.
Sinclair, W. J. 1903 A, 711. Pleistocene (Potter Creek Cave); California.
1904 A, 17. Pleistocene (Potter Creek Cave); California.
Stock, C. 1918 A, 487. Pleistocene (Hawver Cave); California.
1924 B, 54 ("rabbit"). Upper Miocene (Mint Canyon); California.
1925 A, 18. Lower Pliocene (Rattlesnake); Oregon: Pleistocene (Upper San Pedro and Caves); California.
1927 A, 156. Pleistocene; California.

SYLVILAGUS Gray. Type *Lepus sylvaticus* Bachman.

Gray, J. E. 1867 D, 221.
Hay, O. P. 1902 A, 736 (Lepus, in part).
Ameghino, F. 1907 A, 70.
Cockerell and Miller 1914 A, 365, figs. 66, 67.
Hay, O. P. 1914 A, 471.
Höfer, H. 1911 A, 440.
Honigmann, H. L. 1913 A, 294.
Lyon, M. W. 1904 A, *passim.*
Major, C. J. F. 1899 A, 513, 514.
Miller, G. S. 1912 B, 357.
1924 C, 462.
Palmer, T. S. 1904 A, 655, 851.
Scharff, R. F. 1911 A, 225 (Silvilagus).
Schlosser, M. 1903 F, 144.
Trouessart, E. L. 1904 A, 535.

Sylvilagus audubonii (Baird).

Baird, S. F. 1857 A, 608 (Lepus).
Dice, L. R. 1925 A, 128.
Elliot, D. G. 1901 A, 283 (Lepus).
Furlong, E. L. 1904 A, 54, 55 (Lepus auduboni?).
1906 A, 243, 245 (L. auduboni?).
Hay, O. P. 1927 D, 184, 215 (S. auduboni).
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 365.
1924 C, 470.
Miller, L. H. 1912 A, 70, 73 (L. auduboni).
Nelson, E. W. 1909 A, 214, pl. xi, figs. 1, 5.
Sinclair, W. J. 1903 A, 711 (L. auduboni?).
1904 A, 17 (L. auduboni).
Stock, C. 1925 A, 113.

Recent; north-central California: Pleistocene; California.

Sylvilagus audubonii pix Dice.

Dice, L. R. 1925 A, 128, figs. 4, 6, 8-12.
Kellogg, L. 1912 A, 164, 167, fig. 16 (S. auduboni).

Pleistocene (La Brea); California.

Sylvilagus bachmani cinerascens (Allen).

Allen, J. A. 1890, Bull. Amer. Mus. Nat. Hist., III, 159 (Lepus).
Dice, L. R. 1925 A, 130, figs. 5, 7.
Hay, O. P. 1927 D, 184.
Kellogg, L. 1912 A, 168.
Miller, G. S. 1912 B, 371.
1924 C, 476.

Recent; southern California to Lower California: Pleistocene (LaBrea); California.

Sylvilagus floridanus (Allen).

Allen, J. A. 1890 Bull. Amer. Mus. Nat. Hist., III, 160.
Hay, O. P. 1902 A, 736 (Lepus sylvaticus).
Agassiz, L. 1859 B, 186 ("hare").
Baker, F. C. 1920 A, 208, 248 (Lepus sylvaticus); 473 (S. floridanus).
Bangs, O. 1898 A, 173 (Lepus).
Brown, B. 1908 A, 199, pl. xxi (Lepus).
Calvin, S. 1909 B, 342 (L. sylvaticus).
Chamberlin, T. C. 1894 A, 759 (L. sylvaticus).
Cope, E. D. 1895 G, 596 (Lepus sylvaticus).
Dice, L. R. 1917 A, 181.
Elliot, D. G. 1901 A, 380 (Lepus).
Frech and Geinitz 1903 A, 36 (L. sylvaticus).
Hay, O. P. 1914 A, 32, 38 (Lepus); 472, pl. lxxiii, figs. 1-6 (Sylvilagus).
1920 B, 106.
1923 A, 496.
1924 D, 247, 252, 276, 283 (Lepus, Sylvilagus).
Holmes, F. S. 1859 A, 184 ("rabbit").
1860 A, vii ("rabbit").
Joleaud, L. 1919 A, 712 (L. sylvaticus).
Leidy, J. 1857 J, 100 (Lepus sylvaticus).
1859 J, 181 (Lepus sylvaticus).
1889 H, 19 (Lepus sylvaticus).
Leverett, F. 1899 A, 42, 124 (Lepus sylvaticus).
Lyon, M. W. 1904 A, *passim*, figs.
McGee, W J 1891 A, 495 (L. sylvaticus).
Matthew, W. D. 1925 A, 97 (Lepus. This species?).
Mercer, H. C. 1894 A, 98 ("gray rabbit").
Miller, G. S. 1912 B, 358.
1924 C, 463.
Nelson, E. W. 1909 A, 164, pl. ix, figs. 2, 5, text-fig. 11.
Osborn, H. F. 1910 B, 472 (Lepus sylvaticus).
Peterson, O. A. 1926 A, 281 (Lepus sylvaticus).
Rhoads, S. N. 1903 A, 246 (Lepus).
Simpson, G. G. 1928 H, 2.
Upham, W. 1895 B, 282 ("rabbit").
Whitney, J. D. 1862 A, 136 (Lepus sylvaticus).

Recent; eastern half of United States: Pleistocene; Pennsylvania, Virginia, Illinois, Iowa, Arkansas, South Carolina, Florida, Maryland.

Sylvilagus palustris (Bachman).

Bachman, J. 1837, Jour. Acad. Nat. Sci. Phila., VII, 194 (Lepus).
Baker, F. C. 1920 A, 374.
Bangs, O. 1898 A, 173 (Lepus).
Cope, E. D. 1871 I, 93 (Lepus sylvaticus).

Elliot, D. G. 1901 A, 279 (Lepus).
Hay, O. P. 1917 E, 45.
1923 A, 382.
1927 D, 274.
Loomis, F. B. 1924 C, 506.
Lyon, M. W. 1904 A, 330, 337, pl. lxxvi, fig. 6; pl. lxxvii, fig. 4; pl. lxxxix, fig. 7 (Limnolagus).
Miller, G. S. 1912 B, 373.
1924 C, 478.
Nelson, E. W. 1909 A, 266, pl. xii, figs. 3, 6.
Sellards, E. H. 1916 B, 103 (S. sp.).
1916 C, 151, 158, pl. xxix, figs. 3, 6 ("Sylvilagus sp." This species?).
1916 D, 616 (S. sp.).
1916 E, 16, 17 (S. sp.).
Simpson, G. G. 1928 H, 2.
Recent; Virginia to South Carolina and Florida: Pleistocene; Florida: (Port Kennedy); Pennsylvania.

Sylvilagus sp. indet.

Gidley, J. W. 1922 B, 120. Pleistocene (San Pedro Valley); Arizona.
1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1919 C, 106. Pleistocene; Florida.
1920 B, 141. Pleistocene; Texas.
1921 A, 613. Pleistocene (Middle?); Washington.
1923 A, 496. Pleistocene; Florida.
1924 D, 247. Pleistocene; Texas.
1927 D, 313.
Stock, C. 1925 A, 118. Pleistocene (Upper San Pedro); California.

PALÆOLAGUS Leidy. Type *P. haydeni* Leidy.

Hay, O. P. 1902 A, 735.
Coues, E. 1883 A, 74.
Dice, L. R. 1917 A, 180.
Douglass, E. 1901 B, 250.
1905 A, 211.
1909 C, 231, 283, 285.
Gidley, J. W. 1906 F, 99, fig. 12.
Haug, E. 1911 A, 1528.
Joleaud, L. 1919 A, 711, fig. 8.
Kraglievich, L. 1926 C, 47.
Matthew, W. D. 1901 B, 369, 370, 376.
1902 D, 306.
1905 D, 54, fig. 26.
1907 A, 177, 214.
1909 C, 110.
1910 B, 72.
1915 K, 420.
Merriam, J. C. 1911 B, 206.
1916 E, 169 ("new genus").
Moodie, R. L. 1922 C, 347.
O'Harra, C. C. 1910 A, 88, 127.
Osborn, H. F. 1907 G, 148, 150, figs. 113, 115.
1910 B, 221, 534.
Palmer, T. S. 1904 A, 501, 850.
Scharff, R. F. 1911 A, 226.
Schlosser, M. 1903 F, 142.
1924 A, 48.
Seeley, H. G. 1886 A, 516.
Thorpe, M. R. 1923 E, 241.
Trouessart, E. L. 1904 A, 533.
Troxell, E. L. 1921 C, 340.
Wallace, A. R. 1876 A, I, 140.
Weber, M. 1904 A, 508.
Weber and Abel 1928 A, 293.
Winge, H. 1888 A, 156.
Woodward, A. S. 1898 B, 377.
Zittel and Schlosser 1911 A, 433.
1923 A, 517.

Palæolagus agapetillus Cope.

Hay, O. P. 1902 A, 735 (P. haydeni, in part).
Matthew, W. D. 1902 D, 307, fig. 16 (This species?).
1903 B, 218.
1909 C, 108.
Trouessart, E. L. 1904 A, 533.
Troxell, E. L. 1921 C, 347, figs. 17, 19 (Subsp. of P. haydeni).
Oligocene (White River); Colorado.

Palæolagus brachyodon Matthew.

Matthew, W. D. 1903 B, 217, 218.
Douglass, E. 1903 A, 149.
Lambe, L. M. 1905 D, 369 A.
Matthew, W. D. 1907 A, 177.
1909 C, 104.
Oligocene (White River); Montana, Canada?

Palæolagus haydeni Leidy.

Hay, O. P. 1902 A, 735.
Cook, H. J. 1912 D, 36.
Cope, E. D. 1891 N, 73, fig. 45 (P. haydenii).
Darton, N. H. 1905 A, 173.
Lambe, L. M. 1905 D, 368 A.
1908 A, 11, 58, pl. viii, figs. 21-25.
Matthew, W. D. 1901 B, 357, 377.
1902 D, 308.
1903 B, 218.
1909 C, 105.
O'Harra, C. C. 1920 A, 151.
Seeley, H. G. 1886 A, 516.
Sinclair, W. J. 1924 A, 102.
Trouessart, E. L. 1904 A, 533.
Troxell, E. L. 1921 C, 340, 345, figs. 1, 2, 9-16, 18, 20.
Weber, M. 1904 A, 508, fig. 382.
Oligocene (Middle); Colorado: ("Brule"); Nebraska.

Palæolagus intermedius Matthew.

Hay, O. P. 1902 A, 736.
Matthew, W. D. 1901 B, 357, 377.
1902 D, 308, fig. 17.
1903 B, 218.
1909 C, 108.
Troxell, E. L. 1921 C, 348 (Subsp. of P. haydeni).
Oligocene (White River); Colorado.

Palæolagus leporinus (Cope).

Hay, O. P. 1902 A, 736.
Trouessart, E. L. 1904 A, 533 (Syn. of P. haydeni).
Oligocene (White River); Colorado.

Palæologus nevadensis Kellogg.

Kellogg, L. 1910 A, 435, fig. 19.
Merriam, J. C. 1911 B, 205, 214, 253, 255.
Miocene (Virgin Valley); Nevada.

Palæolagus temnodon Douglass.

Douglass, E. 1901 B, 242, 250.
1903 A, 149.
Granger, W. 1910 A, 240 (This species?).
Lambe, L. M. 1905 D, 369 A.
Matthew, W. D. 1902 D, 310.
1903 B, 216, 218.
1907 A, 177.
1909 C, 104.
Trouessart, E. L. 1904 A, 533.
Lower Oligocene (White River); Montana.

Palæolagus triplex Cope.

Hay, O. P. 1902 A, 736.
Douglass, E. 1901 B, 242.
Matthew, W. D. 1901 B, 377.
1902 D, 309 (Syn. of P. turgidus).
Oligocene (White River); Colorado.

Palæolagus turgidus Cope.

Hay, O. P. 1902 A, 736.
Cook, H. J. 1912 D, 36.
Douglass, E. 1901 B, 242.
Lambe, L. M. 1904 C, 29, 38, 52.
1905 D, 368, A.
1908 A, 11, 58.
Matthew, W. D. 1901 B, 377.
1902 D, 309.
1903 B, 218.
1909 C, 105.
Sinclair, W. J. 1924 A, 102.
Troxell, E. L. 1921 C, 343, figs. 4-6.
Middle Oligocene (Brule); Nebraska: (Cedar Creek); Colorado.

HYPOLAGUS Dice. Type *Lepus vetus* Kellogg.

Dice, L. R. 1917 A, 181.
Joleaud, L. 1920 D, 98.
Matthew, W. D. 1924 C, 87.

Hypolagus browni (Hay).

Hay, O. P. 1921 A, 630, pl. cxxi, figs. 6-18 (Brachylagus).
1923 A, 9 (Brachylagus).
1927 D, 129.
Pleistocene (Nebraskan); Arizona.

Hypolagus edensis Frick.

Frick, C. 1921 A, 348, figs. 51-53.
Stock, C. 1925 R, 21.
Pliocene (Eden); California.

Hypolagus vetus (Kellogg).

Kellogg, L. 1910 A, 436, fig. 20 (Lepus).
Dice, L. R. 1917 A, 181, figs. 4, 5.
1923 A, 192.
Frick, C. 1921 A, 348.
Matthew, W. D. 1924 C, 66, 86 [Lepus (Hypolagus)].
Merriam, J. C. 1911 B, 205, 211, 212, 214, 215, 253, 255 (Lepus).
1916 A, 179, fig. 15 (Lepus. This species?).
1917 A, 429.
Merriam, Stock, Moody 1925 A, 58, 69, fig. 24 (This species?).
Pliocene (Thousand Creek); Nevada: (Cedar Mountain?); California.

Hypolagus sp. indet.

Stock, C. 1925 A, 20. Lower Pliocene (Pinole-Orinda-Siesta); California.

OREOLAGUS Dice. Type *Palæolagus nevadensis* Kellogg.

Dice, L. R. 1917 A, 182.
Joleaud, L. 1920 D, 98.
Merriam, J. C. 1911 B, 205, 214, 253, 255 (Palæolagus).

Oreolagus nevadensis (Kellogg).

Kellogg, L. 1910 A, 405, fig. 19 (Palæolagus).
Dice, L. R. 1917 A, 182, fig. 6.
Middle Miocene (Virgin Valley); Nevada.

ARCHÆOLAGUS Dice. Type *Lepus ennisianus* Cope.

Dice, L. R. 1917 A, 180.
Joleaud, L. 1920 D, 98.
Matthew, W. D. 1924 C, 87.

Archæolagus ennisianus (Cope).

Hay, O. P. 1902 A, 736 (Lepus).
Dice, L. R. 1917 A, 180, figs. 1-3.
1923 A, 192.
Matthew, W. D. 1902 D, 306, fig. 15 (Lepus).
Matthew, W. D. 1907 A, 214 (Lepus).
1909 C, 108 (Lepus).
1924 C, 87 (Lepus).
Merriam and Sinclair 1907 A, 185, 188, 190, 191, 192 (Lepus).
Schlosser, M. 1924 A, 48 (Lepus).
Seeley, H. G. 1886 A, 516 (Lepus).
Trouessart, E. L. 1904 A, 533 (Palæolagus).
Oligocene (Upper); Oregon.

Order SIMPLICIDENTATI Lilljeborg.

Lilljeborg, W. 1866.

Most authors give to this name the neuter termination *a*. For additional citations see under Glires.

Hay, O. P. 1902 A, 718.
Abel, O. 1912 F, 506.
Beddard, F. E. 1902 A, 462.
Case, E. C. 1899 B, 183.
Gidley, J. W. 1912 A, 285.
Gregory, W. K. 1910 A, 465.
Hay, O. P. 1912 D, 751.
1914 A, 450.

Hilzheimer, M. 1913 A, 569.
Höfer, H. 1911 A, 442.
Jaekel, O. 1911 A, 221 (Simplicidentati).
Kükenthal, W. 1913 A, 680.
Lilljeborg, W. 1866 A, 9.
Major, C. J. F. 1908 B, 630.
Matthew, W. D. 1912 B, 186 ("simplicidentate rodents").
1914 H, 351 ("simplicidentates").
1928 B, 977 ("simplicident rodents").
Osborn, H. F. 1907 G, 145.
Rehs, J. 1914 A, 68.
Schlosser, M. 1902 I, 708.
Scott, W. B. 1913 A, 60.
Stromer, E. 1912 A, 169.
Van Bemmelen, J. F. 1914 A, 524.
Weber, M. 1904 A, 490, 495.
Weber and Abel 1928 A, 252, 254, 267, 268, 271.
Weber and Burlet 1927 A, xiv.
Zittel and Schlosser 1911 A, 425.
1923 A, 509.

Suborder SCIURIFORMES, new name.

Unless otherwise indicated the writers, as cited, employ for this suborder the name Sciuromorpha.

Hay, O. P. 1902 A, 718.
Ameghino, F. 1889 A, 107, 109.
1906 A, 409.
1912 B, 172.
Anonymous 1897 B, 367.
Arldt, T. 1907 B, 451 ("sciuromorphen").
1907 D, 144, 252.
Beddard, F. E. 1902 A, 462.
Cope, E. D. 1891 N, 70, 72, 80 (Sciuromorpha. Myomorpha).
Coues, E. 1883 A, 116.
Doran, A. H. G. 1878 A, 418.
Gregory, W. K. 1910 A, 330.
Hay, O. P. 1912 D, 751.
1914 A, 451.
Hogben, L. T. 1919 A, 72.
Höfer, H. 1911 A, 445 (Sciuroidea).
Kraglievich, L. 1926 C, 47.
Matthew, W. D. 1910 B, 64, 69, 71 (Sciuromorpha).
1915 A, 233.
Moodie, R. L. 1922 C, 347.
Osborn, H. F. 1910 B, 534 (Sciuromorpha); 536 (Myomorpha).
Rehs, J. 1914 A, 69, 93 (Sciuromorphi).
Reynolds, S. H. 1897 A, 477.
Schlosser, M. 1900 G, 306.
1902 I, 708 (Sciuromorphi).
Scott, W. B. 1913 A, 270.
Steinmann, G. 1907 A, 477.
Trouessart, E. L. 1904 A, 292.
Weber, M. 1904 A, 489.
Weber and Abel 1928 A, 267.
Winge, H. 1888 A, 155.
Zittel and Schlosser 1911 A, 424.
1923 A, 508.

Superfamily SCIUROIDÆ Miller and Gidley.

Miller and Gidley 1918 A, 432.
Abel, O. 1911 A, 148 (Sciuroidea).
Höfer, H. 1911 A, 445 (Sciuroidea).
Kraglievich, L. 1926 C, 47 (Sciuroidea).
Matthew, W. D. 1910 B, 69 (Sciuroidea).
Osborn, H. F. 1910 B, 535 (Sciuroidea, Castoroidea, Geomyoidea).
Rehs, J. 1914 A, 69, 93 (Sciuroidei).
Weber and Abel 1928 A, 267, 272 (Sciuroidea); 276 (Geomyoidea).
Weber and Burlet 1927 A, xiv (Sciuroidea, Castoroidea, Geomyoidea).
Winge, H. 1924 A, 8, 79 (Sciuridæ, Heteromyidæ, Adjidaumidæ).

SCIURIDÆ Gray.

Gray, J. E. 1821 A, 304.
Hay, O. P. 1902 A, 718.
Abel, O. 1921 A, 263 ("sciuriden").
Adams, C. C. 1902 B, 355 ("squirrels").
Adloff, P. 1903 A, 368 ("sciuriden").
1904 A, 142 ("sciuriden").
1910 A, 258 ("sciuriden").
1910 B, 246 ("sciuriden").
1913 C, 9 ("sciuriden").
Ameghino, F. 1889 A, 894, 955.
Anthony, R. 1910 A, 781 ("sciuridés").
1912 A.
Arldt, T. 1907 D, 680.
Beddard, F. E. 1902 A, 463.
Branca, W. 1915 A, 45 ("sciuriden").
Brandt and Woldrich 1887 A, 57 (Sciurina).
Carter, J. T. 1922 A, 599.
Carus, V. 1875 A, 96 (Sciurida).
Chandler, A. C. 1914 B, 134.
Cockerell and Miller 1914 A, 366.
Coues, E. 1883 A, 122.
Cuvier, F. 1912 A, 277, pl. xv, fig. 1 ("écureuils").
Depéret, C. 1905 C, 703 ("sciuridés").
Depéret, C. 1907 B ("sciuridés").
1908 A, 112.
1912 A, 708 ("sciuridés").
Doran, A. H. G. 1878 A, 407.
Elliot, D. G. 1901 A, 50.
Fawcett, E. 1923 A, 221, pls. i-iv (Xerus).
Fuchs, H. 1914 A, 311 ("sciuriden").
Gidley, J. W. 1907 B, 635.
Giebel, C. G. 1865 C, 432 ("sciurinen").
1878 C, 854 ("sciurinen").
1883 A ("sciurinen").
Gregory, W. K. 1914 G, 380.
Hay, O. P. 1923 A, 312.
Hoernes, R. 1886 A, 691.
Hogben, L. T. 1919 A, 73.
Kampfen, P. N. 1905 A, 554.
Krumbach, T. 1904 A, 281, 288 ("sciuriden," "arctomiden").
Leunis and Ludwig 1883 A, 213.
Lilljeborg, W. 1866 A, 37.
Lobley, J. L. 1908 A, 200, 205.
Martin, C. 1857 A, 82 ("écureuils").
1872 A, 308 ("écureuils").

Matthew, W. D. 1901 B, 370.
1904 C, 264.
1909 C, 103, 105, 107, 110, 114, 116, 118.
1910 B, 65, 70, 71.
1915 A, 229 ("squirrels").
1915 K, 466, fig. 17 ("squirrels").
Miller, G. S. 1912 A, 897.
1912 B, 292.
1924 C, 173.
Miller and Gidley 1918 A, 433.
Osborn, H. F. 1909 D, 55, 61, 66, 80.
1910 B, 128, 221, 259, 535.
Owen, R. 1866 B, 383.
Palmer, T. S. 1904 A, 769, 804.
Pocock, R. I. 1923 A, 209.
Rehs, J. 1914 A, 69, 94.
Reynolds, S. H. 1897 A, 476.
Schlosser, M. 1902 I, 708.
1902 J, 232, 256.
Scott, W. B. 1916 A, 117 ("squirrels").
Seton, E. T. 1909 A, 307.
Taschenberg, O. 1899 A, 4675.
Terra, P. 1911 A, 298.
Thomas, O. 1915 A, 383.
Trouessart, E. L. 1904 A, 297.
Troxell, E. L. 1923 D, 395.
Vicq-d'Azyr, F. 1792 A, xcvii, 2, 280 (Sciurii).
Wagner, A. 1841 A, 116 (Sciurina).
Wallace, A. R. 1876 A, II, 234.
Waterhouse, G. R. 1839 C, 173.
1839 D, 91, 94.
1842 A, 198.
Weber and Abel 1928 A, 253, 257, 267, 268, 273, fig. 72 (Sciuridæ, Marmotidæ); 274 (Tamiidæ).
Winge, H. 1924 A, 84 (Sciurini).
Zittel and Schlosser 1911 A, 426 (Sciuroidea).
1923 A, 509, 518 (Sciuroidea).

SCIURINÆ Baird.

Baird, S. F. 1857 A, 240.
Hay, O. P. 1902 A, 719.
Adloff, P. 1910 A, 266 ("sciurinen").
Arldt, T. 1912 A, 742.
Elliot, D. G. 1901 A, 50.
Gray, J. E. 1821 A, 303 (Arctomydæ).
Lilljeborg, W. 1866 A, 38 (Sciurini).
Miller and Gidley 1918 A, 433.
Thomas, O. 1914 A, 416.
Trouessart, E. L. 1904 A, 301.
Weber, M. 1904 A, 496.
Weber and Abel 1928 A, 274 (Tamiidæ).
Zittel and Schlosser 1911 A, 426.
1923 A, 510.

PALÆARCTOMYS Douglass. Type *P. montanus* Douglass.

Douglass, E. 1903 A, 182.
Matthew, W. D. 1909 C, 118.
1910 B, 71.
Zittel and Schlosser 1923 A, 510.

Palærctomys macrorhinus Douglass.

Douglass, E. 1903 A, 154, 184, figs. 24, 25.
Matthew, W. D. 1909 C, 116.
Upper Miocene (Arikaree); Montana.

Palæarctomys montanus Douglass.

Douglass, E. 1903 A, 154, 183, fig. 23.
Matthew, W. D. 1909 C, 116.
Upper Miocene (Arikaree); Montana.

Palæarctomys vetus (Marsh).

Hay, O. P. 1902 A, 720 (Arctomys).
Matthew, W. D. 1909 C, 116.
Upper Miocene (Arikaree); Nebraska.

EUTAMIAS Trouessart. Type *Tamias striatus asiaticus* (Gmelin).

Trouessart, E. L. 1880, Bull. Soc. d'Études Sci. d'Angers, x, 86-87.
Allen, J. A. 1903 A.
Merriam, C. H. 1897 C, 189.
1906 A, 250, fig. 2.
Miller, G. S. 1912 B, 306.
1924 C, 199.
Osborn, H. F. 1910 B, 477.
Palmer, T. S. 1904 A, 282, 865.

Eutamias sp. indet.

Hay, O. P. 1927 D, 215.
Kellogg, L. 1912 A, 156. Pleistocene (Potter Creek Cave); California.
Merriam and Stock 1925 A, 10. Pleistocene (Potter Creek Cave); California.
Miller, L. H. 1912 A, 70 (E. senex). Pleistocene (Potter Creek Cave); California.
Sinclair, W. J. 1904 A, 17 (E. senex). Pleistocene (Potter Creek Cave); California.
Stock, C. 1925 A, 113. Pleistocene (Caves); California.
1927 A, 156. Pleistocene; California.

CITELLUS Oken. Type *Mus citellus* Linnæus.

Oken, L. 1916, Lehrb. Zool., II, 842.
If not otherwise indicated the authors, as quoted, use for this genus the name *Spermophilus*.
Abel, O. 1921 A, 263.
Adloff, P. 1907 A, 534.
1910 A, 258.
1913 A, 238.
1913 C, 14.
1917 B, 287.
Ahrens, H. 1912 B, 53.
Aichel, O. 1917 A, 102, fig. 1.
Allen, J. A. 1892 A.
1902 E, 375 (Citellus).
1903 A (Citellus).
Altmann, F. 1925 A, 101.
Arldt, T. 1907 D, 604.
Beddard, F. E. 1902 A, 464.
Berthold, A. A. 1825 A, 998 (Citillus)
Brandt and Woldrich 1887 A, 62.

Bronn, H. G. 1848 B, 1161.
1849 A, 717.
Cockerell and Miller 1914 A, 368, figs. 82-85.
Coues, E. 1883 A, 125 (Spermophilus).
Cuvier, F. 1822 A, 293, 304, pl. ii ("spermophile").
Cuvier, G. 1825 A, v, 1, 29, pl. i ("spermophiles").
Doran, A. H. G. 1878 A, 408, pl. lx.
Elliot, D. G. 1901 A, 81.
Erdl, M. 1843 A, 525, 529.
Frech, F. 1902 A, 484.
Frey, H. 1911 A, 403.
Fuchs, H. 1914 A, 31.
Gervais, P. 1852 A, 19.
1859 A, 24.
Giebel, C. G. 1855 A, 46, pl. xx.
Gottlieb, H. 1914 A, 204.
Heilprin, A. 1887 A, 359.
Heinick, P. 1908 A, 390.
Höfer, H. 1911 A, 447, pl. xix, fig. 12.
Hoernes, R. 1886 A, 692.
Hrdlička, A. 1903 A, 381.
Hue, E. 1907 A, pl. xlvi.
Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 214.
Lilljeborg, W. 1866 A, 40.
Lönnberg, E. 1910 A, 119.
Matthew, W. D. 1910 B, 71.
1915 K, 402.
Merriam, C. H. 1892 A, 62.
Merriam, Stock, Moody 1925 A, 68.
Miller, G. S. 1912 A, 924 (Citellus).
1912 B, 295 (Citellus).
1924 C, 184 (Citellus).
Nehring, A. 1880 A.
1901 C, 464.
Osborn, H. F. 1909 D, 90.
1910 B, 632.
Owen, R. 1845 B, 402, pl. cv, fig. 3 ("souslik").
Palmer, T. S. 1904 A, 190, 864 (Citellus).
Pictet, F. J. 1853 A, 237.
Pocock, R. I. 1923 A, 209-246.
Rehs, J. 1914 A, 94.
Scharff, R. F. 1895 A, 467.
1911 A, 60 (Citellus).
Schwalbe, G. 1904 A, 207.
Scott, W. B. 1913 A, 163.
Shimer, H. W. 1903 A, 824.
Taschenberg, O. 1899 A, 4683.
Tims, H. W. M. 1901 A, 278.
Wallace, A. R. 1876 A, ɪɪ, 235, 236.
Waterhouse, G. R. 1839 C, 172.
1839 D, 96.
Weber, M. 1904 A, 497.
Weber and Abel 1928 A, 274 (Citellus).
Winge, H. 1888 A, 109.
1924 A, 82, 83.
Woodward, H. 1904 B, 162.

Citellus bensoni Gidley.

Gidley, J. W. 1922 B, 120, 122, pl. xxxiv, figs. 3, 4.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Citellus cochisei Gidley.

Gidley, J. W. 1922 B, 120, 121, pl. xxxiv, figs. 1, 2.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Citellus taylori Hay.

Hay, O. P. 1921 A, 616, pl. cxx, fig. 7.
Pleistocene (Early?); Texas.

Citellus tridecemlineatus (Mitchill).

Mitchill, S. L. 1821, Med. Repos., n.s., ᴠɪ (xxɪ). 248 (Sciurus).
Brown, B. 1908 A, 194 (Spermophilus).
Coues, E. 1883 A, 125 (Spermophilus).
Elliot, D. G. 1901 A, 100 (Spermophilus).
Hay, O. P. 1914 A, 32.
Merriam, C. H. 1906 A, 255, fig. 3.
Miller, G. S. 1912 B, 305.
1924 C, 193.
Scharff, R. F. 1911 A, 61.
Seton, E. T. 1909 A, 394, pl. xxxvi, text-figs. 122-123, map 2.
Recent; Michigan to Montana, north to Saskatchewan, south to central Texas, Illinois and Ohio: Pleistocene (Middle); Arkansas.

Citellus tuitus Hay.

Hay, O. P. 1921 A, 627, pl. cxx, figs. 5, 6.
1923 A, 9.
1927 D, 129.
Pleistocene (Nebraskan?); Arizona.

Citellus sp. indet.

Kellogg, L. H. 1910 A, 427, fig. 8. Pliocene (Thousand Creek); Nevada.
Merriam, J. C. 1911 B, 211, 213, 214, 253. Pliocene (Thousand Creek); Nevada.
1917 A, 429. Pliocene (Thousand Creek); Nevada.
Stock, C. 1920 A, 272, fig. 6 ("sciurid"). Oligocene (San Lorenzo); California.

CALLOSPERMOPHILUS Merriam, C. H. Type *Sciurus lateralis* Say.

Merriam, C. H. 1897, Proc. Biol. Soc. Washington, xɪ, 189.
Miller, G. S. 1912 B, 315.
1924 C, 182.

Callospermophilus chrysodeirus (Merriam).

Merriam, C. H. 1890, N. Amer. Fauna, No. 4, 19 (Tamias).
Elliot, D. G. 1901 A, 84 (Spermophilus).
Hay, O. P. 1927 D, 214, 215.
Kellogg, L. 1912 A, 156.
Merriam, C. H. 1901, Proc. Biol. Soc. Washington, xɪᴠ, 126.
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 315.
1924 C, 182.
Miller, L. H. 1912 A, 70.
Sinclair, W. J. 1904 A, 17.
Stock, C. 1925 A, 113.
Recent; northern California: Pleistocene (Caves); California.

Callospermophilus trepidus Taylor.

Taylor, W. P. 1910, Univ. Calif. Pub. Zool., v, 283.
Kellogg, L. 1910 A, 427, fig. 8 ("Citellus sp." This species?).
Miller, G. S. 1924 C, 184.

Recent; Nevada: Pliocene (Thousand Creek); Nevada.

MARMOTA Blumenbach. Type *Mus marmota* Linnæus.

Blumenbach, C. H. C. 1779, Handb. Naturgesch., I, 79.

Unless otherwise stated, the authors here cited employ the name *Arctomys.*

Hay, O. P. 1902 A, 720.
Abel, O. 1912 F, 347, 379.
  1921 A, 263.
Allen, J. A. 1892 A.
  1903 A.
Altmann, F. 1925 A, 108.
Ameghino, F. 1903 A, 129.
Arldt, T. 1907 D, 303, 304.
Bärthold, — 1904 A, 367.
Bardeleben, K. 1885 B, 86 (Arctomys).
Beddard, F. E. 1902 A, 465.
Berthold, A. A. 1825 A, 913, 986 (Marmota, Arctomys).
Blumenbach, J. F. 1779, Handb. Naturges., I, 79 (Marmota).
Bovero, A. 1905 A, 114, figs. 1-4.
Brandt and Woldrich 1887 A, 61.
Bronn, H. G. 1849 A, 717.
Brubacher, H. 1892 A, 3.
Cockerell and Miller 1914 A, 366, figs. 74-76.
Cope, E. D. 1880 U, 158.
Coues, E. 1883 A, 122.
Cuvier, F. 1812 A, 278, pl. xv, fig. 2 ("marmotte").
  1822 A, 293, 297, pl. i (Arctomis).
  1825 F, 159, pl. liv ("marmottes").
Cuvier, G. 1825 A, v, 1, 6, 29, pl. i.
Doran, A. H. G. 1878 A, 409, pl. lx.
Eggeling, H. 1904 A, 93.
Eimer, G. H. T. 1901 A, 139.
Elliot, D. G. 1901 A, 139.
Erdl, M. 1843 A, 524, 529.
Frech, F. 1906 A, 484.
Gaupp, E. 1912 B, 235.
  1913 A, 125.
Gegenbaur, C. 1864 C, 182.
Gervais, P. 1852 A, 20.
  1859 A, 23.
Giebel, C. G. 1855 A, 45.
  1878 C, 854.
  1883 A, pls. xxii, lviii, lxxi, lxxviii.
Gottlieb, H. 1914 A, 186.
Gregory, W. K. 1910 A, 437.
  1920 A, 173, 242, fig. 126.
Hagmann, G. 1909 A.
Hasse and Schwarck 1870 A, 114.
Heilprin, A. 1887 A, 359, 364.
Höfer, H. 1911 A, 447, pl. xix, figs. 5, 6.
Hoernes, R. 1886 A, 691.
Howell, A. H. 1915 A, 1, 18 (Marmota).
Hue, E. 1907 A, pls. xlii, lxxxiv, xcviii, cxii, cxxvi, cxxxvi, cxlix, clxiv, clxxvi.
Köstlin, O. 1844 A.
Krumbach, T. 1904 A, 288.
Leunis and Ludwig 1883 A, 215.
Lilljeborg, W. 1866 A, 40.
Lobley, J. L. 1908 A, 196.
Lönnberg, E. 1910 A, 119.
Martins, C. 1857 A, 82 ("marmottes").
  1872 A, 308 ("marmottes").
Matschie, P. 1901 A, 316.
Matthew, W. D. 1910 B, 46, 71.
  1915 K, 402.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1912 A, 931 (Marmota).
  1912 B, 292 (Marmota).
  1924 C, 173.
Nehring, A. 1880 A.
  1901 C, 464.
Osborn, H. F. 1910 B, 535; 622 (Marmota).
  1916 B, 535.
Owen, R. 1845 B, pl. cv, fig. 4.
  1866 B, 382.
Palmer, T. S. 1904 A, 118, 864; 400, 865 (Marmota).
Pander and Alton 1823 B, 6, pl. vi ("murmelthiere").
  1824 A, 3 ("murmelthiere").
Paulli, S. 1900 B, 514.
Pictet, F. J. 1853 A, 236.
Scharff, R. W. 1907 A, 139.
Schwalbe, G. 1904 A, 207.
Scott, W. B. 1913 A, 152, fig. 59 (Marmota).
Seton, E. T. 1909 A, 416.
Taschenberg, O. 1899 A, 4465.
Tornier, G. 1889 A, 178 (Arctomys).
  1891 A, 114, 174.
Trouessart, E. L. 1904 A, 343.
Vicq-d'Azyr, F. 1792 A, 340.
Wallace, A. R. 1876 A, II, 235, 236.
Waterhouse, G. R. 1839 C, 172.
Weber, M. 1904 A, 497.
Weber and Abel 1928 A, 254, fig. 168.
Winge, H. 1888 A, 109.
  1924 A, 9, 83, 84.
Zietzschmann, O. 1917 A, 437, pl. xxv.
Zittel and Schlosser 1911 A, 426.
  1923 A, 510.

Marmota arizonæ Hay.

Hay, O. P. 1921 A, 627, pl. cxxiii, figs. 6-8.
  1923 A, 9.
  1927 D, 129.

Pleistocene (Nebraskan?); Arizona.

Marmota arrodens Hay.

Hay, O. P. 1921 A, 611, pl. cxvii, figs. 3-5, 7, 9; pl. cxviii, figs. 1, 3, 4.
  1927 D, 259.

Pleistocene (Middle?); Washington.

Marmota flaviventer (Audubon and Bachman).

Audubon and Bachman 1841, Proc. Acad. Sci. Phila., 1841, 99 (Arctomys).

Hay, O. P. 1921 A, 613, pl. cxviii, figs. 6, 8.
1927 D, 215, 259.
Howell, A. H. 1915 A, 36-55, pls. i-iv; vi-viii, xii-xiv; text-fig. 2 (M. flaviventris).
Kellogg, L. 1912 A, 154 (Arctomys, This species?).
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 292.
1924 C, 175.
Stock, C. 1918 A, 468.
1925 A, 113.
Taylor, W. P. 1911 B, 211.
Trouessart, E. L. 1904 A, 344.
Recent; New Mexico to 49th parallel: Pleistocene; California, Washington.

Marmota minor (Kellogg).

Kellogg, L. 1910 A, 425, figs. 3-7 (Arctomys).
Merriam, J. C. 1911 B, 211, 213, 214, 253 (Arctomys).
1917 A, 429 (Arctomys).
Pliocene (Thousand Creek); Nevada.

Marmota monax (Linnæus).

Hay, O. P. 1902 A, 720 (Arctomys monax, M. torta).
Ameghino, F. 1903 A, 138, fig. 59 (Arctomys).
Baker, F. C. 1920 A, 354 (Arctomys).
Brown, B. 1908 A, 192 (Arctomys).
Cope, E. D. 1895 G, 596 (Arctomys).
Coues, E. 1883 A, 123, fig. 66 (Arctomys).
Cuvier, F. 1822 A, 293, 297 (Arctomis empetra).
Dewey, M. 1918 A, 143, fig. 5 (Arctomys).
Elliot, D. G. 1901 A, 105, fig. 24 (Arctomys).
Fischer, J. B. 1829 A, 342 (Arctomys).
Foote, J. S. 1916 A, 137, pl. xix (Arctomys).
Frech and Geinitz 1903 A, 36 (Arctomys).
Gidley, J. W. 1913 B, 96 (This species?).
1920 B, 282 ("woodchucks." This species?).
Giebel, C. G. 1883 A, pl. xxii, fig. 1 (Arctomys).
Hay, O. P. 1914 A, 32, 38.
1920 B, 93, 105, 116.
1921 A, 612, pl. cxvii, figs. 2, 6, 8, 10; pl. cxviii, figs. 3, 4.
1923 A, 489.
1928 C, 429.
Howell, A. H. 1915 A, 1-36, pls. iii-vi, xi, xii; text-fig. 1.
Leidy, J. 1857 J, 100 (Arctomys).
Leighton, M. M. 1921 A, 513.
Mercer, H. C. 1894 A, 98 ("woodchuck").
Miller, G. S. 1912 B, 293.
1924 C, 173.
Rhoads, S. N. 1903 A, 243 (Arctomys).
Seton, E. T. 1909 A, 416; text-figs. 125, 126, maps 22, 23.
Trouessart, E. L. 1904 A, 344.
Whitney, J. D. 1862 A, 136 (Arctomys).
Recent; New York to Georgia northwest to Alaska: Pleistocene; Arkansas, Pennsylvania, Virginia, Illinois, Maryland.

Marmota nevadensis (Kellogg).

Kellogg, L. 1910 A, 422, figs. 1, 2 (Arctomys).
Merriam, J. C. 1911 B, 211, 214, 253 (Arctomys).
1917 A, 429 (Arctomys).
Pliocene (Thousand Creek); Nevada.

Marmota sp. indet.

Cragin, F. W. 1899 A, 610 ("woodchuck"). Pleistocene; Colorado.
1900 A, 23 ("woodchuck"). Pleistocene; Colorado.
Furlong, E. L. 1904 A, 54.
1906 A, 243. Pleistocene (Samwel Cave); California.
Miller, L. H. 1912 A, 70, 73 ("Arctomys sp."). Pleistocene (Potter Creek Cave and Samwel Cave); California.
Sinclair, W. J. 1904 A, 17 ("Arctomys sp."). Pleistocene; California.

OTOSPERMOPHILUS Brandt. Type *Sciurus grammurus* Say.

Brandt, J. F. 1844, Bull. Acad. Sci. St. Pétersb., II, 379.
Miller, G. S. 1912 B, 295 (Citellus).
1924 C, 179.

Otospermophilus gidleyi Merriam, Stock, Moody.

Merriam, Stock, Moody 1925 A, 58, 68, fig. 23.
Pliocene (Rattlesnake); Oregon.

Otospermophilus grammurus douglasii (Richardson).

Richardson, J. 1829, Fauna Bor.-Amer., I, 172 (Arctomys).
Elliot, D. G. 1901 A, 89 (Spermophilus g. douglasi).
Furlong, E. L. 1904 A, 54, 55 (Citellus douglasi).
1906 A, 243, 245 (Citellus douglasi).
Hay, O. P. 1927 D, 171, 172, 214, 215 (Citellus beecheyi douglasi).
Kellogg, L. 1912 A, 155 (Citellus beecheyi douglasi).
Merriam and Stock 1925 A, 10 (Citellus beecheyi douglasi).
Miller, G. S. 1912 B, 299 (Citellus).
1924 C, 181.
Miller, L. H. 1912 A, 73 (Citellus douglasi); 70 (Spermophilus douglasi).
1912 B, 299 (Citellus).
1924 C, 181.
Scharff, R. F. 1911 A, 61 (Citellus douglasi).
Sinclair, W. J. 1903 A, 711 (Spermophilus douglasi).
1904 A, 17 (Spermophilus douglasi).
Stock, C. 1925 A, 113, 118 (Citellus beecheyi douglasi).
Pleistocene (Caves); California.

Otospermophilus grammurus fisheri Merriam.

Merriam, C. H. 1893, Proc. Biol. Soc. Wash., VIII, 133 (Spermophilus beecheyi fisheri).
Baird, S. F. 1857 A, 307, pl. iii, fig. 2; pl. xlvi, fig. 3 (Spermophilus beecheyi).
Dice, L. R. 1925 A, 125 (Citellus beecheyi fisheri).

Hay, O. P. 1927 D, 183, 190 (Citellus beecheyi captus); 183 (C. beecheyi fisheri).
Kellogg, L. 1912 A, 164, figs. 12-15 (Citellus beecheyi captus).
Mearns, E. A. 1907, Mamm. Mex. Bound. U. S., pt. 1, 315 (Otospermophilus grammurus).
Miller, G. S. 1912 B, 299 (Citellus grammurus fisheri).
1924 C, 181.
Richardson, J. 1829 A, 170 [Arctomys (Spermophilus) beecheyi].
Say, T. 1823, Long's Exped. Rocky Mts., II, 72 (Sciurus grammurus).

Recent; California: Pleistocene (La Brea); California.

Inasmuch as the relationships of the subspecies *fisheri* are uncertain, citations are made to both species *grammurus* and *beecheyi*. The statement as to locality and geological age refers only to the subspecies *fisheri*.

CYNOMYS Rafinesque. Type *Arctomys ludovicianus* Ord.

Rafinesque, C. S. 1817, Amer. Month. Mag., II, 45.
Abel, O. 1921 A, 263.
Allen, J. A. 1892 A.
Ameghino, F. 1903 A, 118.
Cockerell and Miller 1914 A, 367, figs. 77-81.
Coues, E. 1883 A, 123.
Elliot, D. G. 1901 A, 102.
Haug, E. 1911 A, 1706, 1886.
Heilprin, A. 1887 A, 359.
Höfer, H. 1911 A, 447.
Hollister, N. 1916 A, 1, 10.
Leunis and Ludwig 1883 A, 215.
Lilljeborg, W. 1866 A, 40.
Lönnberg, E. 1910 A, 119.
Lydekker, R. 1910 E, 352.
Matthew, W. D. 1909 C, 118.
1910 B, 71.
1915 K, 402.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 294.
1924 C, 196.
Osborn, H. F. 1905 I, 110.
1909 D, 85.
1910 B, 457.
Palmer, T. S. 1904 A, 212, 864.
Scharff, R. F. 1911 A, 148.
Shimer, H. W. 1903 A, 824.
Taschenberg, O. 1899 A, 4536.
Thomas, O. 1916 A, 303.
Trouessart, E. L. 1904 A, 342.
Troxell, E. L. 1922 A, 124, 128.
Weber, M. 1904 A, 497.
Winge, H. 1888 A, 109.
1924 A, 9, 83, 84.
Zittel and Schlosser 1923 A, 510.

Cynomys ludovicianus (Ord).

Ord, G. 1815, Guthrie's Geogr., 2d Amer. ed., II, 292, 302 (Arctomys).
Ameghino, F. 1903 A, 118, figs. 36, 56.
Coues, E. 1883 A, 123, fig. 67.
Elliot, D. G. 1901 A, 102, fig. 23.
Foote, J. S. 1916 A, 96, pl. ix.
Fraas, E. 1902 C, lxvii (Cercomys).
Hay, O. P. 1914 A, 26 (This species?).
1921 A, 616.
1928 C, 425.
Hollister, N. 1916 A, 14-21, pls. i, ii, v-vii.
Lobley, J. L. 1908 A, 196.
Lydekker, R. 1905 F, 134.
Mansuy, —— 1923 A, 103 (C. lupovicianus).
Matthew, W. D. 1902 F, 317 (This species?).
1918 A, 227 (This species?).
Miller, G. S. 1912 B, 294.
1924 C, 196.
Trouessart, E. L. 1904 A, 342 (Syn. of C. socialis).

Recent; Great Plains from northern Montana to Texas and Arizona: Pleistocene (Sheridan); Nebraska.

Cynomys niobrarius Hay.

Hay, O. P. 1921 A, 615, pl. cxxii, fig. 7.

Pleistocene (Middle?); Washington.

Cynomys sp. indet.

Hay, O. P. 1924 D, 304. Pleistocene; Nebraska.
Matthew, W. D. 1909 C, 116. Lower Pliocene? (Republican River); Kansas.
1918 A, 228. Pleistocene (Aftonian); Nebraska.
Merriam, J. C. 1917 A, 438.

TAMIAS Illiger. Type *Sciurus striatus* Linnæus.

Hay, O. P. 1902 A, 720.
Abel, O. 1921 A, 263.
Allen, J. A. 1892 A.
Brunner, J. 1905 A, 264 ("chipmunk").
Coues, E. 1883 A, 126.
Cuvier, F. 1825 A, 162 ("tamias").
Doran, A. H. G. 1878 A, 408, pl. lx.
Elliot, D. G. 1901 A, 67.
Gegenbaur, C. 1864 C, 187.
Giebel, C. G. 1883 A, pl. xxii.
Gottlieb, H. 1914 A, 204.
Heilprin, A. 1887 A, 359, 365.
Höfer, H. 1911 A, 447.
Leunis and Ludwig 1883 A, 214.
Lilljeborg, W. 1866 A, 39.
Matschie, P. 1901 A, 315.
Matthew, W. D. 1910 B, 71.
1915 K, 402.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1912 B, 318.
Palmer, T. S. 1904 A, 661, 867.
Pocock, R. I. 1923 A, 209.
Seton, E. T. 1909 A, 337.
Tornier, G. 1891 A, 119.
Waterhouse, G. R. 1839 C, 172.
Weber, M. 1904 A, 497.
Weber and Abel 1928 A, 274.
Winge, H. 1888 A, 109, 139.
1924 A, 8, 82, 84.
Zittel and Schlosser 1911 A, 426.
1923 A, 510.

Tamias lævidens Cope.

Hay, O. P. 1902 A, 720.
  1923 A, 353.
Palmer, T. S. 1904 A, 282 (Eutamias).
Trouessart, E. L. 1904 A, 330 (Eutamias).
  Pleistocene (Middle); Virginia.

Tamias nasutus Brown.

Brown, B. 1908 A, 193, pl. xx.
Hay, O. P. 1914 A, 32.
  1924 D, 251.
  Pleistocene (Middle); Arkansas.

Tamias striatus Linnæus.

Linnæus, C. 1758 A, 64 (Sciurus).
Hay, O. P. 1902 A, 720.
Brandt and Woldrich 1887 A, 58.
Coleman, A. P. 1901 B, 129, 137.
  1901 C, 224.
Coues, E. 1883 A, 125.
Doran, A. H. G. 1878 A, 408, pl. lx, fig. 9.
Elliot, D. G. 1901 A, 80.
Fischer, J. B. 1829 A, 348 (Sciurus).
Hay, O. P. 1920 B, 93.
  1923 A, 497.
Johnson, W. A. 1917 A, 25 ("chipmunk").
Jordan, D. S. 1905 B, 547.
Leidy, J. 1889 H, 5.
Mercer, H. C. 1894 A, 98.
Miller, G. S. 1912 B, 318.
Rhoads, S. N. 1903 A, 242.
Seton, E. T. 1909 A, 337, pl. xxxii; text-fig. 117.
Trouessart, E. L. 1897 A, 432.
  Recent; eastern North America: Pleistocene; Ontario, Pennsylvania, Tennessee.

DIPLOLOPHUS Troxell. Type *D. insolens* Troxell.

Troxell, E. L. 1923 C, 157.

Diplolophus insolens Troxell.

Troxell, E. L. 1923 C, 157, figs. 1, 2.
  Middle Oligocene; Nebraska.

SCIURUS Linnæus. Type *S. vulgaris* Linnæus.

Hay, O. P. 1902 A, 719.
Adloff, P. 1903 A, 367.
  1904 A, 143.
  1907 A, 534.
  1910 A, 258.
Ahrens, H. 1912 B, 49.
Alezais, H. 1902 A, 586 ("écureuil").
Allen, J. A. 1892 A.
  1898 A, 249.
  1903 A.
Ameghino, F. 1889 A, 1024.
  1903 A, 129.
  1906 A, 243.
Anthony, R. 1910 A, 781 ("écureuil").
  1912 A ("écureuil").
Arldt, T. 1907 D, 237, 298.
Bangs, O. 1896 D, 145.
Bardeleben, K. 1904 A, 111.
Berthold, A. A. 1825 A, 919, 988.
Beyer, H. 1908 A, 96 ("eichhörnchen").
Bolk, L. 1913 A, 88, fig. 68.
Bovero, A. 1905 A, 119.
Brandt and Woldrich 1887 A, 57.
Brauer, A. 1914 A, 282.
Bronn, H. G. 1849 A, 717, 783, seq.
Brubacher, H. 1892 A, 3 ("eichhörnchen").
Brunner, J. 1905 A, 264 ("squirrel").
Carlsson, A. 1922 A.
Cleland, J. 1863 B, 30 ("squirrel").
Cockerell and Miller 1914 A, 369, figs. 95-97.
Cope, E. D. 1880 U, 158.
Coues, E. 1883 A, 122, 128.
Cuvier, G. 1805 A.
  1825 A, v, 1, 9, 28, pl. i.
Depéret, C. 1912 A, 708.
Dieterich, K. 1841 A, 80.
Doran, A. H. G. 1878 A, 408, pl. lx.
Eggeling, H. 1904 A, 93.
Eimer, G. H. T. 1901 A, 257 ("eichhörnchen").
Elliot, D. G. 1901 A, 50.
Erdl, M. 1843 A, 524, pl. i.
Fischer, J. B. 1829 A, 348.
Foote, J. S. 1916 A, 115, pl. xiv.
Frassetto, F. 1915 A, 66.
Frech, F. 1906 A, 484.
Freund, P. 1892 A, 542.
  1893 A, 317.
Gaupp, E. 1912 B, 235.
  1913 A, 125.
Gegenbaur, C. 1864 C, 187.
  1865 C, 558, figs. 9, 10.
Gervais, P. 1852 A, 18.
  1859 A, 25.
Giebel, C. G. 1855 A, 45, pl. xx.
  1883 A, pl. xxii, xlvii, lxxvii, lxxxiv.
Gottlieb, H. 1914 A, 204.
Hasse and Schwarck 1870 A, 118.
Heilprin, A. 1887 A, 358, 364, 365.
Heinick, P. 1908 A, 390.
Höfer, H. 1911 A, 445, 446, pl. xix, figs. 10, 11.
Hoernes, R. 1886 A, 692.
Holland, W. J. 1912 B, 750.
Howes, G. B. 1893 C, 589, fig. 1.
Hue, E. 1907 A, pl. xlvii.
Köstlin, O. 1844 A.
Kraglievich, L. 1926 C, 47.
Krumbach, T. 1904 A, 281, figs. 11-15.
Lapicque and Girard 1907 A, 1016.
Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 213.
Lilljeborg, W. 1866 A, 38.
Lull, R. S. 1922 C, 603.
Matschie, P. 1901 A, 315.
Matthew, W. D. 1901 B, 369.
  1909 C, 118.
  1910 B, 71.
  1915 K, 402, 466.
  1924 C, 74.
Meckel, J. F. 1825 A, 402, 466.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1912 A, 898.
  1912 B, 319.
  1924 C, 209.
Nehring, A. 1880 A.

Osborn, H. F. 1907 G, 146, fig. 105.
1909 D, 90.
1910 B, 631.
Owen, R. 1845 B, 407, pl. cv, fig. 1; pl. cvii, fig. 1.
Palacký, J. 1902 B, 142.
Palmer, T. S. 1904 A, 625, 866.
Pander and Alton 1823 B, 6, pl. iv ("eichhörnchen").
Paulli, S. 1900 B, 514.
Pictet, F. J. 1853 A, 236.
Pocock, R. I. 1923 A, 209-246, fig. 19.
Pouchet and Chabry 1884 A, 172 ("écureuil").
Rehs, J. 1914 A, 69, 94.
Retterer and Vallois 1912 B, 411.
Römer, F. 1907 A, 74.
Scharff, R. F. 1895 A, 467.
Schlosser, M. 1902 I, 738.
Scott, W. B. 1913 A, 164.
Seton, E. T. 1909 A, 307.
Simpson, G. G. 1926 D, 248.
Taschenberg, O. 1899 A, 4675.
Terra, P. 1911 A, 296, figs. 119, 126
Thomas, O. 1915 A, 383.
Tims, H. W. M. 1901 A, 278.
1902 A, 337.
Tornier, G. 1891 A, 182.
Trouessart, E. L. 1880, Le Naturaliste, 292 (Parasciurus, Neosciurus, Tamiasciurus).
1904 A, 309.
Troxell, E. L. 1923 D, 385, 396.
Van den Broeck, A. J. P. 1912 A, 57.
Wagner, A. 1841 A, 116.
Waterhouse, G. R. 1839 C, 172.
1839 D, 94, fig.
Weber, M. 1904 A, 497, 512.
Weber and Abel 1928 A, 245, 250, 273, figs. 159, 165.
Winge, H. 1888 A, 137.
1924 A, 8, 82, 84, 170.
Zittel and Schlosser 1911 A, 426.
1923 A, 510.

Sciurus aberti Woodhouse.

Woodhouse, S. W. 1885, Proc. Acad. Nat. Sci. Phila., vii, 1884 (1885), 595.
Matthew, W. D. 1923 A, 12 (This species?).
1924 C, 66, 84 (This species?).
Miller, G. S. 1912 B, 533.
Recent; Colorado to New Mexico, Arizona, and Mexico: Pliocene (Snake Creek); Nebraska.

Sciurus arctomyoides Douglass.

Douglass, E. 1903 A, 154, 181, fig. 22.
Matthew, W. D. 1909 C, 116.
Trouessart, E. L. 1904 A, 318 [S. (Parasciurus)].
Miocene (Arikaree); Montana.

Sciurus calycinus Cope.

Hay, O. P. 1902 A, 719.
Baker, F. C. 1920 A, 208, 214, 396.
Haug, E. 1911 A, 1886 (C. calicinus).
Hay, O. P. 1923 A, 312.
Osborn, H. F. 1910 B, 469.
Rhoads, S. N. 1903 A, 242.
Trouessart, E. L. 1904 A, 318 [S. (Parasciurus)].
Schlosser, M. 1902 H, 140.
Pleistocene (Early); Pennsylvania.

Sciurus carolinensis Gmelin.

Gmelin, J. F. 1788, syst. Nat. i, 148.
Hay, O. P. 1902 A, 719.
Bangs, O. 1896 D, 153, pl. ix.
Doran, A. H. G. 1878 A, 408.
Elliot, D. G. 1901 A, 53-54, fig. 16.
Hay, O. P. 1920 B, 92, 105.
1923 A, 495.
Leidy, J. 1889 H, 5.
Loomis, F. B. 1907 A, 125.
Mercer, H. C. 1894 A, 98 ("gray squirrel").
Miller, G. S. 1912 B, 332.
1924 C, 223.
Pocock, R. I. 1923 A, 212.
Rhoads, S. N. 1903 A, 242.
Trouessart, E. L. 1904 A, 319 [S. (Neosciurus)].
Recent; New York to Florida and west to Missouri and Oklahoma: Pleistocene? (Late); Pennsylvania, Tennessee.

Sciurus douglasii albolimbatus Allen.

Allen, J. A. 1898, Bull. Amer. Mus. Nat. Hist., x, 453 (S. hudsonius alb.).
1898 A, 278 (S. d. californicus).
Elliot, D. G. 1901 A, 66 (S. douglasi alb.).
Hay, O. P. 1927 D, 214, 215.
Kellogg, L. 1912 A, 157 (S. douglasi alb.).
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 322.
1924 C, 213.
Miller, L. H. 1912 A, 70 (S. hudsonicus alb.).
Sinclair, W. J. 1903 A, 711 (S. hudsonicus alb.).
1904 A, 17 (S. hudsonicus alb.).
Stock, C. 1925 A, 113.
Recent; Sierra region of Oregon and northern California: Pleistocene; California.

Sciurus griseus Ord.

Ord, G. 1818, Jour. de Phys., lxxxvii, 152.
Hay, O. P. 1927 D, 214 (S. g. fossilis).
Kellogg, L. 1912 A, 156, fig. 12 (S. g. fossilis).
Miller, G. S. 1912 B, 332.
1924 C, 222.
Stock, C. 1918 A, 469 (S. g. fossilis).
1925 A, 113 (S. g. fossilis).
Recent; Washington to Lower California: Pleistocene (Cave deposits); California.

Sciurus hudsonicus (Erxleben).

Erxleben, J. C. P. 1877, Syst. Regni Anim., i, 416.
Allen, J. A. 1898 A, 255.
Bangs, O. 1896 D, 159, pl. x, figs. 1, 2.
Brown, B. 1908 A, 192, pl. xx.
Coues, E. 1883 A, 129.
Elliot, D. G. 1901 A, 60, fig. 15.
Fischer, J. B. 1829 A, 349.
Frech, F. 1906 A, 484.
Gidley, J. W. 1913 B, 96.
Hay, O. P. 1914 A, 32.
1920 B, 92, 105.
1923 A, 348, 350.
1924 D, 251 (Sciurus).
Miller, G. S. 1912 B, 319.
1924 C, 209.
Pocock, R. I. 1923 A, 213, fig. 18 (Tamiasciurus).

Seton, E. T. 1909 A, 307, text-figs. 108-117, map 13.
Trouessart, E. L. 1904 A, 320 [S. (Tamiasciurus) hudsonius].

Recent; greater part of the United States, western British America, Alaska: Pleistocene; Maryland, Arkansas, Tennessee.

Sciurus panolius Cope.

Hay, O. P. 1902 A, 719.
1923 A, 353.
Trouessart, E. L. 1904 A, 318 [S. (Parasciurus)].

Pleistocene; Virginia.

Sciurus? saskatchewanensis Lambe.

Lambe, L. M. 1908 A, 11, 55, pl. vii, figs. 16, 17.

Oligocene (Cypress Hills); Saskatchewan.

Sciurus tenuidens Hay.

Hay, O. P. 1920 B, 104, pl. iv, fig. 20.
1923 A, 348.

Pleistocene (Middle); Maryland.

Sciurus sp. indet.

Douglass, E. 1903 A, 3, 181, fig. 21. Miocene; Montana.
Furlong, E. L. 1904 A, 54, 55.
1906 A, 243, 245. Pleistocene (Samwel Cave); California.
Gidley, J. W. 1920 B, 282. Pleistocene (Middle); Maryland.
Hay, O. P. 1923 A, 321. Pleistocene (Early); Pennsylvania.
Matthew, W. D. 1909 C, 114. Miocene (Middle); Montana.
Miller, L. H. 1912 A, 73. Pleistocene (Samwel Cave); California.

PTEROMYINÆ Major.

Major, C. J. F. 1893 A, 187.
Hay, O. P. 1902 A, 718.
Arldt, T. 1912 A, 742.
Flower and Lydekker 1891 A, 453 ("flying squirrels").
Miller, G. S. 1912 B, 339 (Petauristidæ).
1924 C, 230.
Miller and Gidley 1918 A, 433.
Vogt, C. 1879 A, 246 ("écureuils volants").
Weber, M. 1904 A, 498.

GLAUCOMYS Thomas. Type *Mus volans* Linnæus.

Unless otherwise indicated the authors, as quoted, use for this genus the name *Sciuropterus.*

Thomas, O. 1908 B, 5 (Glaucomys).
Allen, J. A. 1877 A, 653.
1892 A.
1903 A.
Bangs, O. 1896 D, 162.
Beddard, F. E. 1902 A, 467.
Claus, C. 1895 A, 351 (Pteromys).
Coues, E. 1883 A, 130.
Cuvier, F. 1825 A, 161, 255.
Döderlein, L. 1900 B, 54.
Doran, A. H. G. 1878 A, 409, pl. lx (Pteromys).
Elliot, D. G. 1901 A, 107.
Frech, F. 1906 A, 484.
Heilprin, A. 1887 A, 359.
Kampfen, P. N. 1905 A, 555.
Kraglievich, L. 1926 C, 47 (Sciuromys).
Leche, W. 1921 A, 70.
Lilljeborg, W. 1866 A, 39.
Lull, R. S. 1917 B, 363.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1912 B, 339.
1924 C, 230.
Osborn, H. F. 1910 B, 631.
Palmer, T. S. 1904 A, 625, 866.
Scharff, R. F. 1895 A, 467.
1911 A, 63.
Scott, W. B. 1913 A, 164.
Seton, E. T. 1909 A, 437, map 24.
Vicq-d'Azyr, F. 1792 A, 322 (Sciurus).
Winge, H. 1924 A, 8, 82, 170.
Young, G. W. 1915 A, 257.
Zittel and Schlosser 1911 A, 426.
1923 A, 510.

Glaucomys sabrinus klamathensis (Merriam).

Merriam, C. H. 1897, Proc. Biol. Soc. Wash., xi, 225 (Sciuropterus alpinus klam.).
Elliot, D. G. 1901 A, 111 (S. volans klam.).
Hay, O. P. 1927 D, 214, 215 (Sciuropterus alpinus klam.).
Howell, A. H. 1918 A, 52, pls. iii, v, vii.
Kellogg, L. 1912 A, 157, fig. 6 (Sciuropterus alpinus klam.).
Merriam and Stock 1925 A, 10 (Sciuropterus alpinus klam.).
Miller, G. S. 1912 B, 339 (Sciuropterus).
1924 C, 235.
Miller, L. H. 1912 A, 70 (S. a. k.).
Sinclair, W. J. 1904 A, 17 (S. a. k.).
Stock, C. 1925 A, 113 (Sciuropterus alpinus klam.).

Recent; region about Klamath County, Oregon: Pleistocene (Potter Creek Cave); California.

Glaucomys volans (Linnæus).

Linnæus, C. 1758 A, 63 (Mus).
Allen, J. A. 1877 A, 655 (Sciuropterus volucella).
Bangs, O. 1896 D, 164, fig. 31 (Sciuropterus).
Coues, E. 1883 A, 130, fig. 70 (Sciuropterus volucella).
Gidley, J. W. 1913 B, 96 (S. alpinus?).
Hay, O. P. 1923 A, 350 (Sciuropterus alpinus. This species?).
Howell, A. H. 1918 A, 18-29, pls. i-vi; text-fig. 2.
Miller, G. S. 1912 B, 341 (Sciuropterus).
1924 C, 230.
Thomas, O. 1908 B, 6 [S. (Glaucomys)].

Recent; eastern United States: Pleistocene; Maryland.

GEOMYIDÆ Gill.

Gill, T. 1872 B, 21.
Hay, O. P. 1902 A, 730.
Abel, O. 1912 F, 84 ("geomyiden").
Adams, C. C. 1902 B, 355 ("gophers").
1905 A, 64 ("pocket gophers").
Arldt, T. 1907 D, 655.
1912 A, 698, 742 (Geomyidæ); 698 (Protoptychidæ).
Beddard, F. E. 1902 A, 483.
Brauer, A. 1914 A, 282.
Carus, V. 1875 A, 100 (Geomyina).
Chandler, A. C. 1914 B, 134.
Cockerell and Miller 1914 A, 371.
Cope, E. D. 1880 U, 156 (Saccomyidæ).
Coues, E. 1883 A, 96 (Saccomyidæ); 98 (Geomyidæ).
Doran, A. H. G. 1878 A, 413 (Saccomyidæ).
Elliot, D. G. 1901 A, 215.
Frech, F. 1906 A, 484.
Gill, T. 1885 B, 18.
Grant, M. 1904 B, 195, 205.
Höfer, H. 1911 A, 449 (Geomyoidea).
Kampfen, P. N. 1905 A, 555.
Kraglievich, L. 1926 C, 47 (Geomyoidea).
Leche, W. 1887 A (Saccomyidæ).
Leunis and Ludwig 1883 A, 217.
Lilljeborg, W. 1866 A, 32 (Sallomydidæ).
Lobley, J. L. 1908 A, 205 (Saccomyidæ).
Matthew, W. D. 1907 A, 211, 212.
1909 C, 99, 101, 107, 110, 112, 114, 116, 119.
1910 B, 66, 70.
1915 A, 229.
Miller, G. S. 1912 B, 233.
1924 C, 236.
Miller and Gidley 1918 A, 433 (Geomyidæ); 434 (Geomyinæ).
Osborn, H. F. 1909 D, 126.
1910 B, 230, 248, 357.
Palmer, T. S. 1904 A, 742, 848.
Rehs, J. 1914 A, 94 (Geomyoidei).
Schlosser, M. 1902 I, 708.
1911 A, 166 ("geomyiden").
Schwarz, E. 1924 A, 422 ("gophers").
Sclater, P. L. 1875 A, 219 (Saccomyidæ).
Scott, W. B. 1913 A, 265.
Seton, E. T. 1904 A, 301.
1909 A, 561.
Taschenberg, O. 1899 A, 4583.
Terra, P. 1911 A, 301.
Trouessart, E. L. 1904 A, 467.
Wallace, A. R. 1894 A, 436.
Weber, M. 1904 A, 490, 498 (Geomyoidea).
Weber and Abel 1928 A, 276, 297.
Winge, H. 1924 A, 9, 88, 90 (Geomyini).
Zittel and Schlosser 1911 A, 427 (Geomyoidea).
1923 A, 511 (Geomyoidea).

ENTOPTYCHINÆ Miller and Gidley.

Miller and Gidley 1918 A, 434.

ENTOPTYCHUS Cope. Type *E. cavifrons* Cope.

Hay, O. P. 1902 A, 731.
Matthew, W. D. 1907 A, 175, 211.
1909 C, 110.
1910 B, 72.
O'Harra, C. C. 1910 A, 88, 133.
Osborn, H. F. 1909 D, 68, 75.
1910 B, 536.
1912 G, 249.
Palmer, T. S. 1904 A, 261, 849.
Schlosser, M. 1899 D, 166.
Seeley, H. G. 1886 A, 515.
Trouessart, E. L. 1904 A, 475.
Weber, M. 1904 A, 511.
Weber and Abel 1928 A, 277.
Winge, H. 1888 A, 109, 138.
1924 A, 9, 89, 90.
Zittel and Schlosser 1923 A, 511, 672.

Entoptychus cavifrons Cope.

Hay, O. P. 1902 A, 731.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 188, 190, 191, 192.
Sinclair, W. J. 1905 A, 127.
Trouessart, E. L. 1904 A, 475.
Oligocene (Upper); Oregon.

Entoptychus crassiramis Cope.

Hay, O. P. 1902 A, 731.
Cope, E. D. 1891 N, 73, fig. 44.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 188, 190.
Sinclair, W. J. 1905 A, 127.
Trouessart, E. L. 1904 A, 475.
Oligocene (Upper); Oregon.

Entoptychus curtus Matthew.

Matthew, W. D. 1907 A, 171, 172, 213.
1909 C, 112.
O'Harra, C. C. 1920 A, 156.
Miocene (Lower); South Dakota.

Entoptychus formosus Matthew.

Matthew, W. D. 1907 A, 171, 172, 212, figs. 24-26.
1909 C, 112.
O'Harra, C. C. 1920 A, 156.
Miocene (Lower); South Dakota, Nebraska?.

Entoptychus lambdoideus Cope.

Hay, O. P. 1902 A, 731.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 189, 190.
Sinclair, W. J. 1905 A, 126.
Trouessart, E. L. 1904 A, 475.
Oligocene (Upper); Oregon.

Entoptychus minimus Kellogg.

Kellogg, L. 1910 A, 431, fig. 15.
Merriam, J. C. 1911 B, 211, 213, 214, 253, 254.
1917 A, 429.
Miocene? (Thousand Creek); Nevada.

Entoptychus minor Cope.

Hay, O. P. 1902 A, 731.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 188, 189, 190.
Sinclair, W. J. 1905 A, 127.
Trouessart, E. L. 1904 A, 475.
Oligocene (Upper); Oregon.

Entoptychus planifrons Cope.

Hay, O. P. 1902 A, 731.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 188, 189, 190, 191, 192.
Sinclair, W. J. 1905 A, 126.
Oligocene (Upper); Oregon.

Entoptychus rostratus Sinclair.

Sinclair, W. J. 1905 A, 128, pl. xiv, figs. 8, 9.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 191, 192.
Oligocene (Upper); Oregon.

Entoptychus sperryi Sinclair.

Sinclair, W. J. 1905 A, 126, pl. xiv, figs. 6, 7.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 191, 192.
Oligocene (Upper); Oregon.

Entoptychus sp. indet.

Cook, H. J. 1912 D, 40. Miocene (Lower Harrison); Nebraska.

GEOMYINÆ.

Miller, G. S. 1924 C, 236.
Weber and Abel 1928 A, 277.
Zittel and Schlosser 1911 A, 427 (Geomyinæ).
1923 A, 511 (Geomyinæ).

PLEUROLICUS Cope. Type *P. sulcifrons* Cope.

Hay, O. P. 1902 A, 731.
Matthew, W. D. 1907 A, 211, 214.
1909 C, 110.
1910 B, 72.
Osborn, H. F. 1910 B, 536.
Palmer, T. S. 1904 A, 550, 849.
Schlosser, M. 1899 D, 166.
Trouessart, E. L. 1904 A, 475.
Weber and Abel 1928 A, 277.
Winge, H. 1888 A, 109, 138.
1924 A, 9, 89, 90.
Zittel and Schlosser 1923 A, 511, 672.

Pleurolicus diplophysus Cope.

Hay, O. P. 1902 A, 731.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185.
Trouessart, E. L. 1904 A, 475.
Oligocene (Upper); Oregon.

Pleurolicus leptophrys Cope.

Hay, O. P. 1902 A, 731.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 189, 190.
Trouessart, E. L. 1904 A, 475.
Oligocene (Upper); Oregon.

Pleurolicus sulcifrons Cope.

Hay, O. P. 1902 A, 731.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185.
Trouessart, E. L. 1904 A, 475.
Oligocene (Upper); Oregon.

Pleurolicus? sp. indet.

Merriam and Sinclair 1907 A, 188, 190. Oligocene (John Day); Oregon.

THOMOMYS Wied. Type *T. rufescens* Wied.

Hay, O. P. 1902 A, 730.
Allen, J. A. 1892 A.
Bailey, V. 1915 A, 410.
1915 B.
Baker, F. C. 1920 A, 209, 214, 396.
Beddard, F. E. 1902 A, 483.
Cockerell and Miller 1914 A, 371, figs. 108-110.
Cope, E. D. 1893 S, 560.
1895 G, 599.
Coues, E. 1883 A, 99.
Dall and Harris 1892 A, 284.
Elliot, D. G. 1901 A, 221.
Frech, F. 1906 A, 484.
Haug, E. 1911 A, 1886.
Höfer, H. 1911 A, 450.
Holliger, C. D. 1916 A, 447.
Lilljeborg, W. 1866 A, 32, 34.
Matthew, W. D. 1907 A, 175, 211.
1910 B, 72.
1915 K, 402.
1924 C, 74.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 233.
1924 C, 236.
Osborn, H. F. 1905 I, 110.
1909 D, 85.
1910 B, 457, 460, 477, 536.
Scott, W. B. 1913 A, 164.
Seton, E. T. 1904 A, 301.
1909 A, 561.
Simpson, G. G. 1928 H, 3.
Trouessart, E. L. 1904 A, 471.
Wagner, A. 1841 A, 123.
Weber, M. 1904 A, 499.
Winge, H. 1888 A, 109, 138, 156.
1924 A, 9, 89, 90.

Thomomys bottæ bottæ (Eydoux and Gervais).

Eydoux and Gervais 1836, Mag. de Zool., VI, 23 [Oryctomys (Saccophorus)].
Miller, G. S. 1912 B, 239.
1924 C, 237.
Stock, C. 1925 A, 118.
Recent; Coast region of California: Pleistocene (Upper San Pedro); California.

Thomomys bottæ leucodon Merriam, C. H.

Merriam, C. H. 1897, Proc. Biol. Soc. Wash., XI, 215 (T. leucodon).
Bailey, V. 1915 B, 47, pl. ii, fig. 11, pl. iii, fig. 5.
Elliot, D. G. 1901 A, 223 (T. leucodon).
Hay, O. P. 1927 D, 214, 215 (T. leucodon).
Holliger, C. D. 1916 A, 447, pls. xxxviii-xxxix; text-figs. 1-20 (T. bottæ).
Kellogg, L. 1912 A, 161, figs. 8-10 (T. leucodon).
Merriam and Stock 1925 A, 10 (T. leucodon).
Miller, G. S. 1912 B, 239 (T. leucodon).
1924 C, 237.
Miller, L. H. 1912 A, 70 (T. leucodon).
Sinclair, W. J. 1903 A, 711 ("Thomomys, near leucodon").
1904 A, 17 (T. leucodon).
Stock, C. 1918 A, 468, 469 (T. leucodon).
1925 A, 113.
Trouessart, E. L. 1897 A, 575 (G. bottæ); 1336 (G. leucodon).
Recent; southwestern Oregon and northern California: Pleistocene (Caves); California.

Thomomys bottæ occipitalis Dice.

Dice, L. R. 1925 A, 125.
Hay, O. P. 1927 D, 183 (T. b. occ.; T. beecheyi pallescens).
Kellogg, L. 1912 A, 167 (T. b. pallescens).
Pleistocene (La Brea); California.

Thomomys bottæ pallescens Rhoads.

Rhoads, S. N. 1895, Proc. Acad. Nat. Sci. Phila., 36.
Hay, O. P. 1927 D, 172 (T. bottæ); 190 (T. b. pallescens).
Kellogg, L. 1912 A, 167.
Miller, G. S. 1912 B, 235.
1924 C, 239.
Trouessart, E. L. 1897 A, 576.
Recent; southern California: Pleistocene (La Brea); California.

Thomomys bulbivorus (Richardson).

Hay, O. P. 1902 A, 730.
Bailey, V. 1915 B, 40, pl. ii, fig. 1; pl. iii, fig. 1.
Elliot, D. G. 1901 A, 222.
Hay, O. P. 1927 D, 242.
Miller, G. S. 1912 B, 242.
1924 C, 254.
Osborn, H. F. 1910 B, 460.
Recent; western Oregon: Pleistocene (Fossil Lake); Oregon.

Thomomys fuscus Merriam.

Merriam, C. H. 1891, N. A. Fauna, No. 5, 70 (T. clusius fuscus).
Hay, O. P. 1921 A, 613, pl. cxviii, figs. 9, 10.
1927 D, 259.
Merriam, C. H. 1901, Proc. Biol. Soc. Wash., XIV., 111 (T. fuscus).
Miller, G. S. 1912 B, 238.
1924 C, 253.
Recent; British Columbia, Idaho, Montana, Wyoming, Washington, Oregon: Pleistocene; Oregon.

Thomomys microdon Sinclair.

Sinclair, W. J. 1905 B, 146, pl. xix, figs. 1-3.
Hay, O. P. 1927 D, 214, 215.
Kellogg, L. 1912 A, 160, fig. 7.
Merriam and Stock 1925 A, 10.
Sinclair, W. J. 1903 A, 711 ("sp. nov.").
1904 A, 17 ("n. sp.").
Stock, C. 1925 A, 113.
Pleistocene (Caves); California.

Thomomys monticola Allen.

Allen, J. A. 1893, Bull. Amer. Mus. Nat. Hist., V, 48 (T. monticolus).
Bailey, V. 1915 B, 121-126, pls. ii, viii.
Elliot, D. G. 1901 A, 225.
Furlong, E. L. 1904 A, 54.
1906 A, 243.
Miller, G. S. 1912 B, 239.
1924 C, 252.
Miller, L. H. 1912 A, 70, 73.
Sinclair, W. J. 1904 A, 17.
Trouessart, E. L. 1897 A, 576.
Recent; west central and southwestern Oregon, in high mountains of northern half of California: Pleistocene (Potter Creek Cave, Samwel Cave); California.

Thomomys orientalis Simpson.

Simpson, G. G. 1928 H, 2, 6, fig. 1.
Pleistocene (Early); Florida.

Thomomys scudderi Hay.

Hay, O. P. 1921 A, 614, pl. cxx, figs. 1-4.
Pleistocene (Middle?); Washington.

Thomomys talpoides (Richardson).

Richardson, J. 1828, Zool. Jour., III, 518 (Cricetus).
Hay, O. P. 1902 A, 731 (T. talpoides); 730 (T. clusius).
Bailey, V. 1915 B, 96-106, pls. i, ii, vii (T. clusius a subspecies).
Coues, E. 1883 A, 100, fig. 48.
Elliot, D. G. 1901 A, 227 (T. talpoides); 229 (T. clusius).
Gilbert, G. K. 1890 A, 304, 394 (T. talpoides, T. clusius).
Hay, O. P. 1927 D, 274 (T. clusius).
Miller, G. S. 1912 B, 241 (T. talpoides); 236 (T. clusius).
1924 C, 247.
Osborn, H. F. 1910 B, 460 (T. clusius).
Seton, E. T. 1904 A, 302.
1909 A, 561, pl. xl; text-figs. 162-169, maps 33, 34.
Recent; eastern Colorado and southern South Dakota, north to plains of Saskatchewan and Manitoba: Pleistocene (Fossil Lake); Oregon.

Thomomys sp. indet.

Hay, O. P. 1914 A, 26.
1927 D, 190, 223, 243. Pleistocene; California.
1928 C, 425.
McCornack, E. C. 1920 A, 23 (T. bulbivorus, T. clusius?).
Matthew, W. D. 1902 F, 317, 320 (Th. indet.).

Matthew, W. D. 1918 A, 227, 228. Pleistocene (Sheridan and Loup River); Nebraska.
1923 A, 12. Lower Pliocene (Upper Snake Creek); Nebraska.
1924 C, 66. Lower Pliocene (Upper Snake Creek); Nebraska.

Miller, L. H. 1912 A, 70. Pleistocene (Potter Creek Cave); California; 73, 81 (Samwel Cave); California, (Fossil Lake); Oregon.
Stock, C. 1925 A, 113. Pleistocene (Caves); California: 195. Pleistocene (Fossil Lake); Oregon.

GEOMYS Rafinesque. Type *Mus tuza* Ord.

Hay, O. P. 1902 A, 730.
Allen, J. A. 1892 A.
Beddard, F. E. 1902 A, 483.
Coues, E. 1883 A, 99, fig. 46.
Cuvier, G. 1825 A, v, 1, 36, pl. i (Saccomys).
Doran, A. H. G. 1878 A, 413, pl. lx.
Elliot, D. G. 1901 A, 215.
Frech, F. 1906 A, 484.
Giebel, C. G. 1883 A, pls. xxvii, xlv, lxxvii.
Heilprin, A. 1887 A, 365.
Höfer, H. 1911 A, 449.
Leunis and Ludwig 1883 A, 217.
Lilljeborg, W. 1866 A, 32, 34.
Lönnberg, E. 1910 A, 117.
Matthew, W. D. 1907 A, 211.
1909 C, 119.
1910 B, 72.
1915 K, 402.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 243.
1924 C, 254.
Osborn, H. F. 1909 D, 85, 90.
1910 B, 357, 460, 464, 536.
Palmer, T. S. 1904 A, 293, 848.
Rehs, J. 1914 A, 94.
Scott, W. B. 1913 A, 163.
Taschenberg, O. 1899 A, 4583.
Trouessart, E. L. 1904 A, 467.
Wagner, A. 1841 A, 123.
Waterhouse, G. R. 1839 D, 595, figs.
1841 B, 83.
Weber, M. 1904 A, 481, 499, fig. 368.
Weber and Abel 1928 A, 253, 277, fig. 167.
Weber and Burlet 1927 A, 141.
Winge, H. 1888 A, 109, 138, 156.
1924 A, 9, 89, 90.
Zittel and Schlosser 1911 A, 427.
1923 A, 511.

Geomys bisulcatus Marsh.

Hay, O. P. 1902 A, 730.
Cook, H. J. 1912 D, 44 (This species?).
Mansuy, —— 1923 A, 102 (G. cisuleatus).
Matthew, W. D. 1909 C, 116.
Matthew and Cook 1909 A, 382 (This species?).
Merriam, J. C. 1917 A, 436 (This species?).
Sinclair, W. J. 1915 A, 76 (This species?).
Miocene (Arikaree); Nebraska?: Pliocene? (Snake Creek); Nebraska.

Geomys bursarius (Shaw).

Hay, O. P. 1902 A, 730.
Baker, F. C. 1920 A, 460.
Elliot, D. G. 1901 A, 217.
Haug, E. 1911 A, 1886.
Hay, O. P. 1914 A, 38.
1920 B, 117.
1923 A, 339, 343.
1928 C, 429.
Hayden, F. V. 1872 A, 10.
Hisaw, F. L. 1924 A, 93.
Höfer, H. 1911 A, 449.
Leidy, J. 1857 J, 100 (Pseudostoma).
Leighton, M. M. 1921 A, 513.
McAdams, W. 1884 B, 269 ("gophers").
Miller, G. S. 1912 B, 244.
1924 C, 255.
Whitney, J. D. 1862 A, 136 (Pseudostoma).
Recent; Mississippi valley from near Canadian boundary to Kansas, east of 99th meridian: Pleistocene; Nebraska, Illinois, Kansas.

Geomys floridanus (Audubon and Bachman).

Audubon and Bachman 1854, Quadr. N. Amer., III, 242, pl. cl, fig. 1 (Pseudostoma).
Matthew, W. D. 1925 A, 97 (This species?).
Merriam, C. H. 1895 A, 115, 208, pls. 7, 10, 14 (G. tuza floridanus).
Miller, G. S. 1912 B, 243.
1924 C, 255.
Simpson, G. G. 1928 H, 2.
Pleistocene (Early); Florida.

Geomys lutescens Merriam.

Merriam, C. H. 1890, N. A. Fauna, IV, 51 (G. bursarius lutescens).
1895 A, 127, pl. ix, figs. 5, 7; pl. xiv, fig. 14.
Miller, G. S. 1912 B, 244.
1924 C, 256.
Trouessart, E. L. 1897 A, 571.
Recent; western Nebraska to Texas: Pleistocene; western Nebraska.

Geomys minor Gidley.

Gidley, J. W. 1922 B, 120, 123, pl. xxxiv, figs. 7, 8.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Geomys parvidens B. Brown.

Brown, B. 1908 A, 194, pl. xxi.
Hay, O. P. 1914 A, 32.
Pleistocene (Middle); Arkansas.

Geomys persimilis Hay.

Hay, O. P. 1927 D, 136.
Gidley, J. W. 1922 B, 120, 122, pl. xxxiv, figs. 5, 6 (G. parvidens; not of B. Brown).
Pleistocene (San Pedro Valley); Arizona.

Geomys texensis C. H. Merriam.

Merriam, C. H. 1895 A, 137.
Hay, O. P. 1920 B, 140.
Miller, G. S. 1912 B, 245.
1924 C, 257.
Trouessart, E. L. 1897 A, 572.
Recent; Texas: Pleistocene; Texas.

Geomys sp. indet.

Freudenberg, W. 1921 A, 139. Pleistocene; Mexico.
1922 A, 4. Pleistocene; Mexico.
Gidley, J. W. 1927 E, 274 (Pleistocene; Florida.
Hay, O. P. 1927 D, 190, 243, 274.
Matthew, W. D. 1902 F, 320 ("sp.").
Matthew, W. D. 1909 C, 114. Miocene (Middle); Nebraska.
Miller, L. H. 1912 A, 81, Pleistocene (Fossil Lake); Oregon.
Osborn, H. F. 1910 B, 460. Pleistocene (Fossil Lake); Oregon.
Stock, C. 1925 A, 195. Pleistocene (Fossil Lake); Oregon.

CRATOGEOMYS Merriam. Type *Geomys merriami* Thomas.

Merriam, C. H. 1895, N. A. Fauna No. 8, 150.
Miller, G. S. 1912 B, 246.
1924 C, 258.

Cratogeomys bensoni Gidley.

Gidley, J. W. 1922 B, 120, 123, pl. xxxiv, figs. 9-11.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

HETEROMYIDÆ Allen.

Allen, J. A. 1893, Bull. Amer. Mus. Nat. Hist., v, 233.
Alston, E. R. 1876 A, 88 (Heteromyinæ).
Cockerell and Miller 1914 A, 370.
Elliot, D. G. 1901 A, 241 (Heteromyinæ).
Flower, W. H. 1883 D, 419 (Heteromyinæ).
Goldman, E. A. 1911 A, 7.
Gray, J. E. 1868, Proc. Zool. Soc. Lond., 201 (Heteromyina).
Gregory, W. K. 1914 G, 380.
Matthew, W. D. 1907 A, 211, 212, 214.
Matthew, W. D. 1909 C, 119.
1910 B, 71.
1915 A, 229.
Merriam, C. H. 1889 A, 1 ("pocket mice").
Osborn, H. F. 1909 D, 57.
1910 B, 168, 287, 536.
Osgood, W. H. 1900 A, 1 ("pocket mice").
Palmer, T. S. 1904 A, 745, 848.
Trouessart, E. L. 1904 A, 478 (Heteromyidæ); 481 (Heteromyinæ).
Winge, H. 1924 A, 9, 84, 89 (Saccomyini).

HELISCOMYS Cope. Type *H. vetus* Cope.

Hay, O. P. 1902 A, 729.
Matthew, W. D. 1907 A, 212.
1910 B, 71.
Miller and Gidley 1918 A, 434.
Osborn, H. F. 1910 B, 536.
Palmer, T. S. 1904 A, 315, 848.
Weber and Abel 1928 A, 277.
Winge, H. 1888 A, 156.
1924 A, 85, 89.

Heliscomys parvus (Troxell).

Troxell, E. T. 1923 C, 158, figs. 3-5 (Diplolophus).
Oligocene (White River); Colorado.

Heliscomys vetus Cope.

Hay, O. P. 1902 A, 729.
Matthew, W. D. 1901 B, 357.
Seeley, H. G. 1886 A, 515.
Trouessart, E. L. 1904 A, 475.
Oligocene (White River); Colorado.

PERIDIOMYS Matthew. Type *P. rusticus* Matthew.

Matthew, W. D. 1924 C, 74, 85.

Peridiomys rusticus Matthew.

Matthew, W. D. 1924 C, 66, 85, fig. 9.
Upper Miocene (Lower Snake Creek); Nebraska.

PEROGNATHUS Wied-Neuwied. Type *P. fasciatus* Wied.

Wied-Neuwied, M. A. P. 1839, Nov. Acta phys. med. Acad. Cæs.-Leop.-Carol., xix, pt. 1, 368.
Allen, J. A. 1904 B, 136.
Cockerell and Miller 1914 A, 370, figs. 101-103.
Coues, E. 1883 A, 97.
Elliot, D. G. 1901 A, 241.
Lilljeborg, W. 1866 A, 32, 33.
Matthew, W. D. 1910 B, 71.
1928 B, 977 ("pocket-mice").
Merriam, C. H. 1889 A, 5.
Miller, G. S. 1912 B, 260.
1924 C, 272.
Osgood, W. H. 1900 A, 13.
Seeley, H. G. 1886 A, 515.
Trouessart, E. L. 1904 A, 481.
Winge, H. 1888 A, 109, 138.
1924 A, 9, 86.

Perognathus californicus californicus Merriam.

Merriam, C. H. 1889 A, 26 (P. californicus); 27 (P. armatus).
Dice, L. R. 1925 A, 125.
Hay, O. P. 1927 D, 183 (P. californicus).
Miller, G. S. 1912 B, 271.
1924 C, 285.
Recent; region of San Francisco: Pleistocene (La Brea); California.

DIPODOMYS Gray. Type *D. philippii* Gray.

Gray, J. E. 1841, Ann. Mag. Nat. Hist., VII, 521.
Beddard, F. E. 1902 A, 484.
Elliot, D. G. 1901 A, 231.
Matthew, W. D. 1910 B, 71.
Merriam, C. H. 1906 A, 246.
Miller, G. S. 1912 B, 276.
1924 C, 287.
Palmer, T. S. 1904 A, 255.
Scharff, R. F. 1911 A, 201.
Winge, H. 1924 A, 9, 87.

Dipodomys minor Gidley.

Gidley, J. W. 1922 B, 120, 123, pl. xxxiv, fig. 16.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

PERODIPUS Fitzinger. Type *Dipodomys agilis* Gambel.

Fitzinger, L. J. 1867, Sitz.-Ber. Akad. Wiss. Wien, LVI, 126.
Cockerell and Miller 1914 A, 370, figs. 104-107.
Miller, G. S. 1912 B, 272.
1924 C, 287 (Syn. of Dipodomys).
Palmer, T. S. 1904 A, 525, 849.
Trouessart, E. L. 1904 A, 480.
Winge, H. 1924 A, 87.

Perodipus agilis (Gambel).

Gambel, W. 1848, Proc. Acad. Nat. Sci., IV, 77 (Dipodomys).
Dice, L. R. 1925 A, 125.
Hay, O. P. 1927 D, 183.
Kellogg, L. 1912 A, 167.
Miller, G. S. 1912 B, 273.
1924 C, 295.
Trouessart, E. L. 1897 A, 580 (Cricetodipus).
1904 A, 480.
Recent; Southern California: Pleistocene (La Brea); California.

Perodipus sp. indet.

Hay, O. P. 1920 B, 140. Pleistocene; Texas.
1924 D, 247. Pleistocene; Texas.

DIPRIONOMYS. Type *D. parvus*.

Kellogg, L. 1910 A, 433.

Diprionomys magnus Kellogg.

Kellogg, L. 1910 A, 434, fig. 18.
Merriam, J. C. 1911 B, 211, 213, 214, 253, 255.
1917 A, 429.
Pliocene (Thousand Creek); Nevada.

Diprionomys parvus Kellogg.

Kellogg, L. 1910 A, 433, fig. 17.
Merriam, J. C. 1911 B, 211, 213, 214, 253, 255.
1917 A, 429.
Pliocene (Thousand Creek); Nevada.

ADJIDAUMIDÆ Miller and Gidley.

Miller and Gidley 1918 A, 434.
Trouessart, E. L. 1904 A, 476 (Adjidauminæ).
Winge, H. 1924 A, 9, 85, 89 (Gymnoptychini).

ADJIDAUMO Hay. Type *Gymnoptychus minutus* Cope.

Hay, O. P. 1902 A, 720.
Douglass, E. 1909 B, 231, 285 (Gymnoptychus).
Haug, E. 1911 A, 1528 (Gymnoptychus).
Kraglievich, L. 1926 C, 47 (Gymnoptychus).
Matthew, W. D. 1901 B, 369 (Gymnoptychus).
1907 A, 211.
1909 C, 104, 110 (Gymnoptychus).
1910 B, 59, 71 [Gymnoptychus (=Adjidaumo)].
1915 K, 420.
Miller and Gidley 1918 A, 434.
Osborn, H. F. 1909 G, 146, fig. 106 (Gymnoptychus).
1910 B, 536 (Gymnoptychus).
Palmer, T. S. 1904 A, 80, 848 (Adjidaumo); 303, 849 (Gymnoptychus).
Schlosser, M. 1911 A, 166 (Gymnoptychus).
Seeley, H. G. 1886 A, 515 (Gymnoptychus).
Trouessart, E. L. 1904 A, 476 (Adjidaumus).
Weber, M. 1904 A, 511 (Gymnoptychus).
Weber and Abel 1928 A, 277 (Gymnoptychus).
Winge, H. 1888 A, 109, 138 (Gymnoptychus).
1924 A, 9, 85 (Gymnoptichus).
Zittel and Schlosser 1911 A, 429 (Gymnoptychus).
1923 A, 513 (Gymnoptychus).

Adjidaumo minimus (Matthew).

Matthew, W. D. 1903 B, 216, fig. 11 (Gymnoptychus).
1909 C, 104 (Gymnoptychus).
Trouessart, E. L. 1904 A, 476 (Adjidaumus).
Lower Oligocene (White River); Montana.

Adjidaumo minor (Douglass).

Douglass, E. 1903 A, 149 (Gymnoptychus).
Matthew, W. D. 1903 B, 215, fig. 10.
Trouessart, E. L. 1904 A, 476 (Adjidaumus).
Oligocene (White River); Montana.

Adjidaumo minutus (Cope).

Hay, O. P. 1902 A, 720.
Matthew, W. D. 1901 B, 357 (Gymnoptychus).
1909 C, 104, 105 (Gymnoptychus).
Trouessart, E. L. 1904 A, 476 (Adjidaumus).
Oligocene (White River); Montana: Oligocene (Cedar Creek); Colorado.

Adjidaumo trilophus (Cope).

Hay, O. P. 1902 A, 720.
Matthew, W. D. 1901 B, 357 (Gymnoptychus).
1903 B, 215 (Gymnoptychus liolophus).
1909 C, 105 (Gymnoptychus).
Trouessart, E. L. 1904 A, 476 (Adjidaumus).
Middle Oligocene (Cedar Creek); Colorado.

EUTYPOMYIDÆ Miller and Gidley.

Miller and Gidley 1918 A, 435.

EUTYPOMYS Matthew. Type *E. thomsoni* Matthew.

Matthew, W. D. 1905 A, 21.
Haug, E. 1911 A, 1528.
Miller and Gidley 1918 A, 435.
Matthew, W. D. 1909 C, 110.
1910 B, 71.
Osborn, H. F. 1907 G, 147, figs. 110, 111.
1910 B, 221, 535.
Schlosser, M. 1911 A, 166.
1923 A, 511.
Taylor, W. P. 1916 A, 457.
Zittel and Schlosser 1911 A, 427.
1923 A, 427.

Eutypomys parvus Lambe.

Lambe, L. M. 1908 A, 11, 57, pl. vi, figs. 1, 2.
Oligocene (Cypress Hills); Saskatchewan.

Eutypomys thomsoni Matthew.

Matthew, W. D. 1905 A, 21, 22, figs. 1-3.
Cook, H. J. 1912 D, 36.
Lambe, L. M. 1908 A, 57.
Matthew, W. D. 1909 C, 105.
O'Harra, C. C. 1910 A, 87.
Oligocene (Middle); South Dakota: (Brule); Nebraska?: (Cypress Hills); Saskatchewan.

Eutypomys sp.?

Matthew, W. D. 1909 C, 103. Oligocene (Lower); Canada.

CHALICOMYIDÆ. Miller and Gidley.

Miller and Gidley 1918 A, 435.

CHALICOMYS Kaup. Type *C. jaegeri* Kaup.

Unless otherwise indicated the authors here cited use the name *Steneofiber* for this genus.

Kaup, J. 1832, Oken's Isis, 994, Taf. xxvi, figs. 1-6 (Chalicomys).
Hay, O. P. 1902 A, 722.
Ameghino, F. 1906 A, 243, fig. 279.
Arldt, T. 1907 D, 255.
Bronn, H. G. 1848 B, 1199 (Steneotherium).
Cope, E. D. 1880 U, 156, 157.
Coues, E. 1883 A, 117.
Depéret, C. 1912 A, 708.
Depéret and Douxami 1902 D, 66.
Gervais, P. 1852 A, 20 (Chalicomys, Steneofiber).
1859 A, 21, 22, pl. viii, fig. 10 (Chalicomys); pls. xliv, xlviii (Stenofiber).
Haug, E. 1911 A, 1528, 1705 (Steneofiber).
Heilprin, A. 1887 A, 364, 365.
Loomis, F. B. 1923 A, 222 (Stenofiber).
Matthew, W. D. 1901 B, 370.
1902 D, 300, fig. 12.
1907 A, 175, 177, 205.
1909 C, 110, 118.
1910 B, 71.
1912 B, 186.
1918 A, 198.
Matthew and Cook 1909 A, 380.
Miller and Gidley 1918 A, 435 (Chalicomys).
O'Harra, C. C. 1910 A, 88, 151.
Ortman, A. E. 1909 B, 177.
Osborn, H. F. 1907 F, 872.
1909 D, 136.
1910 B, 632.
1912 G, 246, 249.
Palmer, T. S. 1904 A, 644, 843.
Peterson, O. A. 1904 B, 344.
1905 B, 296.
Pictet, F. J. 1853 A, 253 (Chalicomys, Steneofiber).
Riggs, E. S. 1909 C, 196.
Romer and McCormack 1928 A, 60 (Palæocastor).
Schlosser, M. 1902 I, 707.
1902 J, 231 (Steneofiber, Chalicomys).
1911 A, 166.
1924 A, 22 (Chalicomys); 27 (Steneofiber).
Schreuder. A. 1928 A. 374.
Taylor, W. P. 1915 A, 167.
1916 A, 457.
Weber, M. 1904 A, 512.
Winge, H. 1888 A, 109.
1924 A. 8, 80.
Woodward, A. S. 1898 B, 378.
Zittel and Schlosser 1911 A, 426.
1923 A, 510, 672 (Steneofiber).

Chalicomys barbouri (Peterson).

Peterson, O. A. 1905 A, 166, 171, 178, pl. xvii, fig. 9; pl. xviii, figs. 18-20; text-figs. 4, 5 (Steneofiber).
Abel, O. 1926 B, 385 (Steneofiber).
Cook, H. J. 1912 D, 40 (Steneofiber).
Matthew, W. D. 1907 A, 205, 207, 208 (Steneofiber).
1909 C, 112 (Steneofiber).
O'Harra, C. C. 1920 A, 155 (Steneofiber).
Ortman, A. E. 1909 B, 178, fig. 2 (Steneofiber).
Peterson, O. A. 1906 C, 35 (Steneofiber).
Lower Miocene (Harrison); Nebraska.

Chalicomys brachyceps (Matthew).

Matthew, W. D. 1907 A, 172, 208 (Steneofiber).
1909 C, 112 (Steneofiber).
O'Harra, C. C. 1920 A, 156 (Steneofiber).
Lower Miocene (Harrison); South Dakota.

Chalicomys complexus (Douglass).

Douglass, E. 1901 B, 249 (Steneofiber).
Matthew, W. D. 1902 D, 304, fig. 10 (Steneofiber).

Matthew, W. D. 1909 C, 107 (Steneofiber).
Peterson, O. A. 1905 A, 177 (Steneofiber).
Trouessart, E. L. 1904 A, 347 (Steneofiber).
Upper Oligocene (White River); Montana.

Chalicomys fossor (Peterson).

Peterson, O. A. 1905 A, 140, 171, 177, pl. xvii, figs. 1-4; pl. xviii, figs. 1-17, 21; pls. xix, xx; text-figs. 1, 2, 3, 6 (Steneofiber).
Abel, O. 1926 B, 385 (Steneofiber).
Cook, H. J. 1912 D, 40 (Steneofiber).
Matthew, W. D. 1907 A, 205 (Steneofiber).
1909 C, 112 (Steneofiber).
O'Harra, C. C. 1910 A, 86, 131, fig. 14 (Steneofiber).
1920 A, 89, 155, fig. 33 (Steneofiber).
Ortman, A. E. 1909 B, 179, fig. 3 (Steneofiber).
Peterson, O. A. 1906 C, 35 (Steneofiber).
Romer and McCormack 1928 A, 58 (Palæocastor).
Lower Miocene (Harrison); Nebraska.

Chalicomys gradatus (Cope).

Hay, O. P. 1902 A, 722 (Steneofiber).
Matthew, W. D. 1902 D, 302, fig. 7 (Steneofiber).
1904 C, 260 (Steneofiber).
1909 C, 107 (Steneofiber).
Merriam and Sinclair 1907 A, 185, 188, 189, 190 (Steneofiber).
Peterson, O. A. 1905 A, 173 (Steneofiber).
Romer and McCormack 1928 A, 58 (Palæocastor).
Schlosser, M. 1924 A, 27 (Castor).
Trouessart, E. L. 1904 A, 347 (Steneofiber).
Upper Oligocene (John Day); Oregon.

Chalicomys hesperus (Douglass).

Douglass, E. 1901 B, 243, 247 (Steneofiber).
Matthew, W. D. 1902 D, 304, fig. 9 (Steneofiber).
1909 A, 4 (Steneofiber).
1909 C, 107 (Steneofiber).
Peterson, O. A. 1905 A, 176 (Steneofiber).
Trouessart, E. L. 1904 A, 347 (Steneofiber).
Upper Oligocene (White River); Montana.

Chalicomys montanus (Scott).

Hay, O. P. 1902 A, 722 (Steneofiber).
Douglass, E. 1903 A, 151 (Steneofiber).
Matthew, W. D. 1902 D, 303, fig. 8 (Steneofiber).
1909 C, 112 (Steneofiber).
Peterson, O. A. 1905 A, 175 (Steneofiber).
Trouessart, E. L. 1904 A, 347 (Steneofiber).
Lower Miocene (Harrison); Montana.

Chalicomys pansus (Cope).

Hay, O. P. 1902 A, 722 (Steneofiber).
Gidley, J. W. 1904 A, 246 (Steneofiber).
Matthew, W. D. 1902 D, 260, 303 (Steneofiber).
1904 C, 257, figs. 9, 10 (Steneofiber).
1907 A, 172, 208 (Steneofiber).
1909 C, 112 (Steneofiber, This species?).
Merrill, G. P. 1907 A, 60, 61 (Steneofiber).
Peterson, O. A. 1905 A, 173 (Steneofiber).
Romer and McCormack 1928 A, 58 (Palæocastor).
Trouessart, E. L. 1904 A, 347 (Steneofiber).
Lower Miocene (Harrison); New Mexico, South Dakota.

Chalicomys peninsulatus (Cope).

Hay, O. P. 1902 A, 722 (Steneofiber).
Matthew, W. D. 1902 D, 302, fig. 6 (Steneofiber).
1904 C, 259, 260 (Steneofiber).
1909 C, 107 (Steneofiber).
Merriam and Sinclair 1907 A, 185, 188, 189, 190 Steneofiber).
Peterson, O. A. 1905 A, 172 (Steneofiber).
Romer and McCormack 1928 A, 58 (Palæocastor).
Schlosser, M. 1924 A, 27 (Castor).
Seeley, H. G. 1886 A, 515 (Castor).
Trouessart, E. L. 1904 A, 347 (Steneofiber).
Upper Oligocene (John Day); Oregon.

Chalicomys sciuroides (Matthew).

Matthew, W. D. 1907 A, 172, 207 (Steneofiber).
1909 C, 112 (Steneofiber).
O'Harra, C. C. 1920 A, 156 (Steneofiber).
Lower Miocene (Harrison); South Dakota.

Chalicomys simplicidens (Matthew).

Matthew, W. D. 1907 A, 172, 205, figs. 19, 20 (Steneofiber).
1909 C, 112 (Steneofiber).
O'Harra, C. C. 1920 A, 156 (Steneofiber).
Schlosser, M. 1924 A, 27 (Steneofiber).
Lower Miocene (Harrison); South Dakota.

Chalicomys sp. indet.

Lambe, L. M. 1905 D, 368 A (Steneofiber); Canada.
Merriam and Sinclair 1907 A, 196 (Steneofiber).
Miocene (Mascall); Oregon.

DIPOIDES Jäger. Type not mentioned.

Jäger, G. F. 1835, Foss. Säuget. Württemb., 1ste Abth., 17-18.
Hay, O. P. 1902 A, 722 (Eucastor).
Ameghino, F. 1906 A, 243 (Eucastor).
Arldt, T. 1911 A, 214.
Haug, E. 1911 A, 1706 (Eucastor).
Matthew, W. D. 1901 B, 445 (Eucastor).
1902 D, 304 (Eucastor).
1904 C, 261 (Eucastor=Dipoides).
1907 A, 175, 205.
1909 C, 118 (Eucastor=Dipoides).
1910 B, 70 (Eucastor, Sigmogomphius as syns.).
1918 A, 199 (Eucastor).
1924 C, 74.
Matthew and Cook 1909 A, 380.
Merriam, J. C. 1911 B, 216.
1913 E, 383.
Miller and Gidley 1918 A, 435 (Eucastor).
Osborn, H. F. 1905 I, 106.
1909 D, 81.
1910 B, 356, 357, 535 (= ? Eucastor).

Palmer, T. S. 1904 A, 239, 868 (Dipoides); 272, 843 (Eucastor).
Schlosser, M. 1902 J, 135, 231.
1903 I, 40, 178, 209, 219 (Dipoides); 178 (Eucastor).
1924 A, 27.
Taylor, W. P. 1916 A, 458.
Trouessart, E. L. 1904 A, 295.
Zittel and Schlosser 1923 A, 511, 679.

Dipoides curtus Matthew and Cook.

Matthew and Cook 1909 A, 381, fig. 9 (D. curtus); 364 (D. brevis; name only).
Cook, H. J. 1912 D, 44 (Name only).
Matthew, W. D. 1918 A, 186.
1924 C, 66.
Merriam, J. C. 1917 A, 436.
Sinclair, W. J. 1915 A, 76.
Lower Pliocene (Snake Creek); Nebraska.

Dipoides lecontei (Merriam).

Merriam, J. C. 1910, in Kellogg, L. 1910 A, 430, fig. 13 (Eucastor).
1911 B, 211, 214, 232, 253, 254 (Eucastor, This species?).
1913 E, 382, fig. 8.
1917 A, 426, 429.
Stock, C. 1921 B, 19 (Dipoides, Sigmogomphius).
Pliocene (Thousand Creek); Nevada: (Siestan); California.

Dipoides tortus (Leidy).

Hay, O. P. 1902 A, 722 (Eucastor).
Barbour, E. H. 1916 C, 525.
Barbour and Cook 1917 A, 507.
1917 B, 180.
Cook, H. J. 1912 D, 44.
Gidley, J. W. 1904 A, 245.
Matthew, W. D. 1902 D, 305, fig. 1 (Eucastor).
1904 C, 261, figs. 11, 12.
1909 C, 116 (Eucastor=Dipoides).
1918 A, 186.
1924 C, 66.
Matthew and Cook 1909 A, 381.
Merriam, J. C. 1916 A, 177, figs. 11-13 (This species?).
1917 A, 436, 438.
Merrill, G. P. 1907 A, 28 (Castor).
O'Harra, C. C. 1920 A, 158 (Eucastor).
Schlosser, M. 1924 A, 29.
Sinclair, W. J. 1915 A, 76.
Trouessart, E. L. 1904 A, 346 (Eucastor).
Pliocene (Snake Creek and Valentine); Nebraska: (Cedar Mountain); California.

Dipoides? sp. indet.

Kellogg, L. 1910 A, 431, fig. 14. Pliocene (Thousand Creek); California.
Merriam, J. C. 1911 B, 211, 213, 214, 253, 254 (This genus?); Pliocene (Thousand Creek); Nevada.
1913 E, 382, fig. 9. Miocene (Siestan); California.
1917 A, 429 (This genus?); Pliocene (Rattlesnake); Oregan; 429 Pliocene (Thousand Creek); Nevada.
Stock, C. 1925 A, 18. Lower Pliocene (Rattlesnake); Oregon.

PALÆOCASTOR Leidy. Type *P. nebrascensis* Leidy.

Leidy, J. 1869 A, 338, 406.
Hay, O. P. 1902 A, 722 (Steneofiber, part).
Matthew and Granger 1925 B, 7.
Miller and Gidley 1918 A, 435.
Romer and McCormack 1928 A, 58, 60.
Wallace, A. R. 1876 A, I, 140.

Palæocastor magnus Romer and McCormack.

Romer and McCormack 1928 A, 58, fig. 1.
Lower Miocene (Lower Harrison); Wyoming.

Palæocastor nebrascensis (Leidy).

Hay, O. P. 1902 A, 722 (Steneofiber).
Cook, H. J. 1912 D, 38 (Steneofiber).
Matthew, W. D. 1902 D, 301, fig. 5 (Steneofiber).
1904 C, 258, 260 (Steneofiber).
1909 C, 107 (Steneofiber).
Miller and Gidley 1918 A, 435.
O'Harra, C. C. 1920 A, 153 (Steneofiber).
Peterson, O. A. 1905 A, 172 (Steneofiber).
Romer and McCormack 1928 A, 58.
Sinclair, W. J. 1924 A, 119 (Steneofiber).
Trouessart, E. L. 1904 A, 347 (Steneofiber).
Oligocene (Upper); South Dakota: (Brule); Nebraska?.

CASTORIDÆ Gray.

Gray, J. E. 1821 A, 302.
Hay, O. P. 1902 A, 721.
Ameghino, F. 1889 A, 894.
1906 A, 409 ("castoridés").
Arldt, T. 1907 D, 643.
1912 A, 698, 742.
Beddard, F. E. 1902 A, 467.
Brandt and Woldrich 1887 A, 81 (Castorinæ).
Carus, V. 1875 A, 99 (Castorina).
Chandler, A. C. 1914 B, 134.
Cockerell and Miller 1914 A, 370.
Coues, E. 1883 A, 118.
Depéret, C. 1906 A, 620 ("castoridés").
1906 B, 1121 ("castoridés").
Depéret, C. 1907 B ("castoridés").
1908 A, 303, 307.
1912 A, 708 ("castoridés").
Doran, A. H. G. 1878 A, 410.
Elliot, D. G. 1901 A, 114.
Gidley, J. W. 1907 B, 635.
Hay, O. P. 1912 D, 751.
1914 A, 451.
1923 A, 312.
Höfer, H. 1911 A, 448 (Castoroidea).
Hoernes, R. 1886 A, 691.
Hogben, L. T. 1919 A, 73.
Kraglievich, L. 1926 C, 47 (Castoroidea)
Leche, W. 1887 A.

Leunis and Ludwig 1883 A, 216.
Lilljeborg, W. 1866 A, 35.
Lobley, J. L. 1908 A, 200.
Martins, C. 1857 A, 68 ("castors").
1872 A, 308 ("castors").
Matthew, W. D. 1904 C, 264.
1905 A, 22.
1905 D, 52.
1909 C, 123.
1910 B, 66, 70, 71.
1928 B, 977 ("beavers").
Miller, G. S. 1912 A, 947.
1912 B, 341.
Miller and Gidley 1918 A, 435.
Osborn, H. F. 1909 D, 61, 64.
Pictet, F. J. 1853 A, 250 ("castorins").
Rehs, J. 1914 A, 94 (Castoroidei, Castoridæ).
Reichenau, W. 1912 A, 208 (Castorinæ).
Reynolds, S. H. 1897 A, 452, 454, 502, 520, 526 ("beavers").
Schlosser, M. 1902 I, 708.
1902 J, 231, 256.
1903 I, 41.
Scott, W. B. 1916 A, 117 ("beavers").
Seton, E. T. 1909 A, 447.
Taylor, W. P. 1915 A, 167.
1916 A, 457, 488.
Terra, P. 1911 A, 301.
Trouessart, E. L. 1904 A, 345.
Wagner, A. 1841 A, 125 (Castorina).
Wallace, A. R. 1876 A, II, 234.
1894 A, 436.
Weber, M. 1904 A, 490, 498 (Castoroidea).
Weber and Abel 1928 A, 275.
Winge, H. 1924 A, 8, 84 (Castorini).
Zaaijer, T. 1894 A, 340.
Zittel and Schlosser 1911 A, 426 (Castoroidea, Castorinæ).
1923 A, 510, 670 (Castoroidea, Castorinæ).

AMBLYCASTOR Matthew. Type *A. fluminis* Matthew.

Matthew, W. D. 1918 A, 197.
1924 C, 74.
Zittel and Schlosser 1923 A, 511.

Amblycastor fluminis Matthew.

Matthew, W. D. 1918 A, 186, 197, figs. 7, 8.
1924 C, 66.
Matthew and Cook 1909 A, 381, fig. 10 (Hystricops venustus?).
Upper Miocene (Lower Snake Creek); Nebraska.

EUHAPSIS Peterson. Type *E. platyceps* Peterson.

Peterson, O. A. 1905 A, 179.
Matthew, W. D. 1909 C, 118.
1910 B, 71.
1918 A, 199.
O'Harra, C. C. 1910 A, 88, 130.
Osborn, H. F. 1909 D, 75.
1910 B, 535.
Winge, H. 1924 A, 8, 80, 94, 169 (Euapsis).
Zittel and Schlosser 1911 A, 427.
1923 A, 511.

Euhapsis gaulodon Matthew.

Matthew, W. D. 1907 A, 172, 208, figs. 21-23.
1909 C, 112.
Schlosser, M. 1924 A, 29.
Lower Miocene (Rosebud); South Dakota.

Euhapsis platyceps Peterson.

Peterson, O. A. 1905 A, 179, pl. xvii, figs. 5-8.
Cook, H. J. 1912 D, 39.
Matthew, W. D. 1907 A, 208.
1909 C, 112 (E. brachyceps).
Osborn, H. F. 1909 D, 73.
Peterson, O. A. 1906 C, 24.
Lower Miocene (Monroe Creek); Nebraska.

HYSTRICOPS Leidy. Type *H. venustus* Leidy.

Leidy, J. 1858 E, 22 (Subgenus of Hystrix).
Hay, O. P. 1902 A, 733 (Erethizon, in part).
Allen, J. A. 1904 A, 384 (Hystrix).
Matthew, W. D. 1902 D, 305 (Hystrix).
1910 B, 71.
Matthew and Cook 1909 A, 380.
Osborn, H. F. 1910 B, 535.
Palmer, T. S. 1904 A, 345, 847.

Hystricops venustus Leidy.

Hay, O. P. 1902 A, 733 (Erethizon).
Allen, J. A. 1904 A, 384 (Hystrix).
Cook, H. J. 1912 D, 44 (This species?).
Matthew, W. D. 1902 D, 305 (Hystrix).
Merriam, J. C. 1917 A, 436 (This species?).
Merrill, G. P. 1907 A, 43.
Sinclair, W. J. 1915 A, 76 (This species?).
Pliocene? (Snake Creek); Nebraska.

Hystricops sp. indet.

Dumble, E. T. 1915 A, 471. Miocene (Fleming); Texas.
1920 A, 232. Miocene (Fleming); Texas.
Matthew, W. D. 1915 L, 471. Miocene (Fleming); Texas.
1920 E, 232. Miocene (Fleming); Texas.

CASTOR Linnæus. Type *C. fiber* Linnæus.

Hay, O. P. 1902 A, 721.
Abel, O. 1912 F, 173, 185.
Alezais, H. 1902 A, 583.
Allen, J. A. 1892 A.
Ameghino, F. 1889 A, 1008.
Anderson, R. J. 1905 A, 326, fig. 18.
Anthony, R. 1912 A ("castors").
Arldt, T. 1907 D, 312.

Ash, F. H. 1908 A, 79 ("beaver").
Bardeleben, K. 1885 B, 86.
1889 A, 107.
Beddard, F. E. 1902 A, 467.
Berthold, A. A. 1825 A, 913, 983, pl. viii, figs. 1, 11, 12.
Brandt and Woldrich 1887 A, 81.
Brauer, A. 1914 A, 282.
Bronn, H. G. 1848 A, 247.
1849 A, 715.
Broom, R. 1901 B, 739 ("beaver").
Cleland, J. 1863 B, 301 ("beaver").
Cockerell and Miller 1914 A, 370, figs. 98-100.
Cope, E. D. 1895 G, 596.
Cuvier, F. 1812 A, 286; pl. v, fig. 12 ("castors").
1825 A, 182, pl. lxii ("castor").
Cuvier, G. 1805 A.
1825 A, v, 1, 10, 37, 48, pls. i-iii.
Dahms, P. 1901 A, 249, 273.
Dall and Harris 1892 A, 284, 289.
Depéret, C. 1909 A, 141.
Diener, C. 1912 A, 218 ("biber").
Doran, A. H. G. 1878 A, 410, pl. lx.
Eggeling, H. 1904 A, 93.
Eimer, G. H. T. 1901 A, 256 ("biber").
Eisler, P. 1895 A, 212.
Elliot, D. G. 1901 A, 115.
Erdl, M. 1843 A, 522, 529, pls. i, ii.
Fischer, J. B. 1829 A, 286.
Frech, F. 1906 A, 487.
Frech and Geinitz 1903 A, 36.
Gaupp, E. 1905 D, 1041.
Geikie, J. 1914 A, 319.
Geinitz, E. 1903 A.
1904 A.
Gervais, P. 1852 A, 20.
1853 B, 40.
1859 A, 18.
Giebel, C. G. 1855 A, 56, pl. xxiii, fig. 3.
1878 C, 854.
1883 A, pls. xxiii, xlvi, lviii, lxxi, lxxvii, lxxxiv, lxxxix.
Gottlieb, H. 1914 A, 214.
Gregory, W. K. 1920 A, 173, 242, fig. 127.
Gregory and Camp 1918 A, text-fig. 8.
Hagamann, G. 1907 A, 464.
Hasse and Schwarck 1870 A, 116.
Hay, O. P. 1912 D, 753.
1914 A, 452.
Heilprin, A. 1887 A, 360, 364, 365.
Heinick, P. 1908 A, 355.
Höfer, H. 1911 A, pl. xx, fig. 15.
Hoernes, R. 1886 A, 691.
Hue, E. 1907 A, pls. xliii, lxxxiv, xcviii, cxii, cxxvi, cxxxvi, cxlix, clxxvi.
Hull, E. 1914 A, 616.
Humphry, G. M. 1970 B, 76 ("beaver").
Huxley, T. H. 1863 F, 530, 579, figs. 50-52.
1870 F, 542.
Kampfen, P. N. 1905 A, 554.
Kellogg, L. 1911 A, 401.
Köstlin, O. 1844 A.
Kükenthal, W. 1891 C, 373.
Leche, W. 1887 A.
1921 A, 70.
Leunis and Ludwig 1883 A, 216.
Linstow, O. 1908 A, 213.
Lönnberg, E. 1909 A, 1, figs. 1-5.
Lydekker, R. 1910 E, 352 ("beavers").
Major, C. J. F. 1899 A, 502.
1908 A, 630.
Martins, C. 1857 A, 82 ("castor").
Matschie, P. 1901 A, 315.
1907 A, 215.
Matthew, W. D. 1915 K, 402.
Matthew and Cook 1909 A, 380.
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 62.
Miller, G. S. 1912 A, 947.
1912 B, 341.
1924 C, 298.
Miller and Gidley 1918 A, 435.
Miram, E. 1841 A, 541 ("biber").
Montagu, I. 1924 A, 1081, pls. i-iii.
Nehring, A. 1880 A.
Newton, E. T. 1882 A, 78.
1891 A, 49.
Osborn, H. F. 1909 D, 83, 85.
1910 B, 609.
1916 B, 536.
Owen, R. 1845 B, pls. cv-cvii, fig. 2; pl. cix, fig. 2.
1845 E, 126.
1858 A, 22 ("beaver").
1868 A, 870.
1869 B, 49.
Palmer, T. S. 1904 A, 162, 842.
Pander and Alton 1823 B, 6, pl. ii ("biber").
1824 A, 3 ("biber").
Parsons, F. G. 1903 A, 317.
Retzius, A. 1837 A, 489.
Romer and McCormack 1928 A, 60.
Rudolf, G. de M. 1922 A, 144, fig. 16 ("beaver").
Scharff, R. W. 1907 A, 56.
1911 A, 80.
Schlosser, M. 1902 J, 135.
1903 I, 178.
Schreuder, A. 1928 A, 374, figs. 1, 2.
Schwalbe, G. 1904 A, 207.
Schwarz, E. 1924 A, 20 ("beavers").
Scott, W. B. 1913 A, 96, 153, 157.
Seton, E. T. 1909 A, 447.
Taschenberg, O. 1899 A, 4516.
Taylor, W. P. 1915 A, 167.
1916 A, 417, 458.
Thomas, O. 1916 A, 303 ("beaver").
Tornier, G. 1889 A, 174.
1891 A, 114, 119, 171.
1894 B, 103 ("biber").
Trouessart, E. L. 1904 A, 345.
Vicq-d'Azyr, F. 1792 A, 507.
Virchow, H. 1907 A, 51 ("biber").
1918 B, 156, figs. 1-7 ("biber").
Wagner, A. 1841 A, 126.
Wagner, H. 1843 A.
Wallace, A. R. 1876 A, I, 140 ("beaver").
Waterhouse, G. R. 1839 C, 172.
1839 D, 595, 598, figs.
1842 A, 200, 203.
Weber, M. 1904 A, 498.
Weber and Abel 1928 A, 252, figs. 166, 169.
Weber and Burlet 1927 A, fig. 39.
Wilder, B. 1872 B, 321.
Winge, H. 1888 A.
1924 A, 8, 80, 84.
Woodward, A. S. 1898 D, 334.

Zittel and Schlosser 1911 A, 427.
1923 A, 510, 680, fig. 633.

Castor accessor Hay.

Hay, O. P. 1927 D, 266-268 (C. accessor); 75 (C. sp. indet.).
1923 A, 8 (C. "possibly n. sp.").
Lindgren and Drake 1904 A, 3 (C. "possibly n. sp.").
Lucas, F. A. 1900 H, 99 (C. "possibly n. sp.").
1904 F, 3 (C. "possibly n. sp.").
Merriam, J. C. 1917 A, 432 (C. "possibly n. sp.").
Pleistocene (Idaho); Idaho.

Castor californicus Kellogg.

Kellogg, L. 1911 A, 401, fig. 1.
Nomland, J. O. 1917 A, 217 ("fossil beaver").
Pliocene (Etchegoin); California.

Castor canadensis Kuhl.

Hay, O. P. 1902 A, 721.
Agassiz, L. 1859 B, 186 ("beaver").
Baird, S. F. 1857 A, 301.
Baker, F. C. 1920 A, 456.
Beddard, F. E. 1902 A, 468.
Brown, B. 1908 A, 195.
Brunner, J. 1904 A, 476, figs. 1-18.
Claypole, E. W. 1897 C, 53 ("beaver").
Coleman, A. P. 1904 A, 351 ("beaver").
1917 A, 359 ("beaver").
Collett, J. 1883 A, 73 ("beaver").
Cope, E. D. 1895 G, 596, 599 (C. fiber).
Coues, E. 1883 A, 118, fig. 62 (C. fiber).
Cummins, W. F. 1893 A, 184 ("beaver").
Cuvier, G. 1809 A, 48, pl. vii, figs. 6, 9, 10 ("Castor du Canada").
Dawson, J. W. 1863 F, 914 (C. fiber).
Dugmore, A. R. 1914 A, 1-225, figs.
Elliot, D. G. 1901 A, 116.
Fischer, J. B. 1829 A, 288.
Foote, J. S. 1916 A, 125, pl. xvi.
Frech, F. 1906 A, 484.
Frech and Geinitz 1903 A, 36 (C. fiber).
Gidley, J. W. 1920 B, 282 ("beavers." This species?).
Gilbert, G. K. 1890 A, 304, 394 (C. fiber).
Gilmore, C. W. 1908 A, 37.
Gordon, R. 1902 B, 1033 ("beaver").
Hahn, W. L. 1909 A, 487.
Hall, J. 1843 A, 367 ("beaver").
1846 B, 391 ("beavers").
1871 A, 100 ("beavers").
Haug, E. 1911 A, 1873 (C. fiber).
Hay, O. P. 1912 D, 753, pl. xxvii.
1914 A, 26, 32, 452, pl. lxx.
1920 B, 93, 105, 116.
1923 A, 481.
1924 D, 240, 296 (Castor); 373 ("beaver").
1927 D, 242 (C. fiber); 266 (C. canadensis).
1928 C, 425, 429.
Höfer, H. 1911 A, 448.
Holden, F. H. 1917 A, 76, pl. v, figs. 2, 3, 6, 7; pl. vi, figs. 14-16; pl. vii, figs. 22-24, pl. viii, figs. 25, 26, 35-37; pl. ix, figs. 43-45; pl. x, figs. 56-61; pl. xi, fig. 63; text-figs. C, F, I, L, O, R.
Lambe, L. M. 1904 C, 31, 39, 51.
1912 A, 14.
Holmes, F. S. 1860 A, iv, vii ("beaver").
Kraglievich, L. 1926 C, 62.
Leidy, J. 1859 J, 181 ("beaver").
1889 H, 18 (C. fiber).
Leighton, M. M. 1921 A, 513.
Linstow, O. 1908 A, 227, 330 (C. fiber).
Lobley, J. L. 1908 A, 196.
Lockwood, S. 1883 A, 365 ("beaver").
1883 B, 343 ("beaver").
McAdams, W. 1884 B, 269 ("beavers").
McCornack, E. C. 1920 A, 23 (C. fiber).
Major, C. J. F. 1908 B, 630, fig. 131.
Martin, Hand. T. 1912 A, 391 (C. fiber).
Martin, Hor. T. 1892 A, 1-238, figs.
Matschie, P. 1907 A, 215.
Matthew, W. D. 1904 C, 260.
Meek, F. B. 1855 A, 215 (C. fiber americana).
Mercer, H. C. 1894 A, 98 ("beaver").
1897 A, 444 ("beaver").
Miller, G. S. 1912 B, 341.
1924 C, 298.
Osborn, H. F. 1899 G, 539 ("beavers").
1910 B, 458, 459 (C. fiber); 490 ("Castor").
Osborn and Anthony 1922 A, 226.
Owen, R. 1868 A, 870.
1869 B, 55, pl. iii, fig. 9.
Quackenbush, L. S. 1909 A, 111, 127, pl. xx; text-figs. 5-7.
Rehs, J. 1914 A, 94.
Reichenau, W. 1912 A, 210, figs, 2, 5, 6, 17, 19 (C. americanus).
Rhoads, S. N. 1903 A, 243.
Schmidt, E. 1872 A, 251 (C. fiber).
Seton, E. T. 1909 A, 447 pl. xxxvii; text-figs. 127-139, map 25.
Spencer, J. W. 1883 A, 308 (C. fiber).
Swallow, G. C. 1858 A, 35 (C. fiber americana).
Taschenberg, O. 1899 A, 4516.
Taylor, W. P. 1916 A, 417, 428, 432.
Thomas, A. O. 1912 A, 570 ("beaver").
Trouessart, E. L. 1904 A, 346.
Udden, J. A. 1899 A, 349 ("beaver").
Volk, E. 1911 A, 83 ("beaver").
Weber and Abel 1928 A, 275.
Weld, M. C. 1869 A, 433 ("beaver").
Wyman, J. 1850 D, 280 ("beaver").
Yates, L. G. 1904 A, 8 (C. fiber).
Recent; Newfoundland to Alaska, south to Mexican boundary, east to North Carolina: Plestocene; New York, Pennsylvania, Maryland, South Carolina, Tennessee, Indiana, Illinois, Iowa, Texas.

Castor subauratus Taylor.

Taylor, W. P. 1912 A, 167.
Hay, O. P. 1927 D, 214.
Kellogg, L. 1912 A, 155, figs. 1-4.
Stock, C. 1918 A, 469.
1925 A, 113.
Taylor, W. P. 1916 A, 428, 447, 461, figs. J-L.
Recent; northern half of California: Pleistocene, Shasta County, California.

Castor sp. indet.

Hay, O. P. 1923 A, 350. Pleistocene; Maryland.
1927 D, 303. Pleistocene; Oregon.
Matthew, W. D. 1902 F, 320. Pleistocene; Oregon.
Merriam, J. C. 1917 A, 433. Pliocene (Etchegoin); California.
Miller, L. H. 1912 A, 81. Pleistocene; Oregon.
Stock, C. 1925 A, 195. Pleistocene (Christmas Lake); Oregon.

SIGMOGOMPHIUS J. C. Merriam. Type *S. lecontei* J. C. Merriam.

Hay, O. P. 1902 A, 722.
Matthew, W. D. 1907 A, 205.
Merriam, J. C. 1913 E, 383.
Palmer, T. S. 1904 A, 631, 843.
Schlosser, M. 1898 G, 136.
1902 J, 135.
1903 I, 178.

Sigmogomphius lecontei J. C. Merriam.

Hay, O. P. 1902 A, 722.
Kellogg, L. 1910 A, 430, fig. 13 (Eucastor).
Lawson and Palache 1902 A, 390.
Matthew, W. D. 1909 C, 116.
Merriam, J. C. 1914 D, 14.
Schlosser, M. 1898 G, 136.
Trouessart, E. L. 1904 A, 347.
Upper Miocene or Lower Pliocene; California.

CASTOROIDIDÆ Allen.

Hay, O. P. 1902 A, 733.
Arldt, T. 1907 D, 83, 247.
1912 A, 744.
Coues, E. 1883 A, 117.
Hay, O. P. 1912 D, 755.
1914 A, 455.
Matthew, W. D. 1905 D, 53.
1910 B, 70.
Miller and Gidley 1918 A, 435.
Taylor, W. P. 1916 A, 457.
Weber, M. 1904 A, 512.

CASTOROIDES Foster. Type *C. ohioënsis* Foster.

Hay, O. P. 1902 A, 733.
Ameghino, F. 1889 A, 976, 981.
1912 B, 179.
Aughey, S. 1876 A, 263 (Castor ohioensis).
Baker, F. C. 1920 A, 456.
Beddard, F. E. 1902 A, 506.
Cope, E. D. 1880 U, 158.
Dall and Harris 1892 A, 284.
Diener, C. 1912 A, 216.
Foster, J. W. 1857 A, 361.
Gidley, J. W. 1912 C, 19.
Gregory, W. K. 1910 A, 454, fig. 30.
Hay, O. P. 1910 D, 372.
1912 B, 8, fig. 4.
1912 D, 755.
1914 A, 455.
1918 B, 10.
1919 B, 379.
1923 A, 481.
1925 D, 242.
Heilprin, A. 1887 A, 365.
Hoernes, R. 1886 A, 691.
Lucas, F. A. 1902 B, 256.
Martin, H. T. 1912 A, 389.
Matthew, W. D. 1910 B, 71.
1912 B, 186.
1915 K, 402.
1918 A, 199.
Osborn, H. F. 1905 I, 110.
1909 D, 85.
1910 B, 609.
Palmer, T. S. 1904 A, 162, 843.
Scharff, R. F. 1911 A, 153, 285, 286.
Schlosser, M. 1902 I, 707.
Schreuder, A. 1928 A, 377.
Scott, W. B. 1913 A, 205,
1916 A, 119 ("giant beaver").
Wallace, A. R. 1876 A, ii, 234.
Weber, M. 1904 A, 512.
Winge, H. 1924 A, 80, 84.
Zittel and Schlosser 1911 A, 427.
1923 A, 511, 680.

Castoroides ohioënsis Foster.

Hay, O. P. 1902 A, 733.
Allen, G. M. 1926 A, 448.
Baker, F. C. 1920 A, 456 (C. ohioënsis, C. kansensis).
1920 B, 63.
Bannister, H. M. 1870 A, 113.
Calvin, S. 1911 A, 215, pl. xxiii.
Collett, J. 1876 A, 246.
Cope, E. D. 1891 N, 71, fig. 41.
1895 G, 597 ("Castoroides").
Coues, E. 1883 A, 117.
Dachnowski, A. 1912 A, 38, 39, 218.
Emmons, E. 1860 A, 243, fig. 209.
Foster, J. W. 1869 A, 238, 254.
1873 A, 92.
Gidley, J. W. 1911 A, 436.
Hartnagel and Bishop 1921 A, 84, pls. xx, xxi.
Hay, O. P. 1910 D, 373.
1912 D, 755, pls. xxviii, xxix.
1914 A, 26, 456, pls. lxxi, lxxii; text-fig. 138.
1916 E, 54 ("giant beaver").
1918 B, 22.
1920 B, 116, 129.
1923 A, 481.
1924 D, 375 (C. ohioensis); 210, 269 (C. kansensis).
1926 E, 391 ("giant-beaver").
1927 C, 281 ("Castoroides").
1927 D, 277, 278, 285.
1928 C, 425, 428, 429 (This species?).
Hildreth, S. P. 1837 A, 80, figs. 15-18 (No name).
Howorth, H. H. 1905 A, 99 ("giant beaver").
Leighton, M. M. 1921 A, 513.
Linstow, O. 1908 A, 225.

McAdams, W. 1883 A, lxxx ("extinct beaver").
Martin, Hand. T. 1912 A, 389, pl. xxiv, fig. A; pl. xxv, fig. A; pl. xxvi, fig. A (C. ohioensis); pl. xxiv, fig. B; pl. xxv, fig. B; pl. xxvi, fig. B (C. kansensis).
Martin, Hor. T. 1892 A, 20.
Matthew, W. D. 1915 K, 410 ("Castoroides").
Mercer, H. C. 1894 C ("giant chinchilla").
Newberry, J. S. 1873 F, 87 ("giant beaver").
Orton, E. 1870 A, 56 ("hog's tusk").
1873 A, 428.
Osborn, H. F. 1910 B, 439, 459.
1920 A, 244, fig. ("Castoroides").
Rhoads, S. N. 1903 A, 245.
Russell and Leverett 1908 A, 9.
Schmidt, E. 1872 A, 251 ("Castoroides").
Scott, W. B. 1913 A, 195 (fig. 113), 205.
Serres, M. 1852 A, 122 ("C. orioensis").
Smith, B. 1914 A, 463, fig. 1.
Thomas, A. O. 1921 A, 309.
Williamson, C. W. 1905 A, 338, figure.
Winchell, A. 1870 A, 504.
Winchell, N. H. 1880 A, 181, pl.
1888 A, 306.
Winchell, N. H. 1910 A, 418.
Wood, N. A. 1914 A, 759.
Worthen, A. H. 1890 A, 8.

Pleistocene; New York, Pennsylvania, Ohio, Michigan, Indiana, Illinois, South Carolina, Mississippi, Tennessee, Texas, Oklahoma, Kansas, Iowa, Nebraska, Minnesota, South Dakota, Oregon.

Castoroides sp. indet.

Hay, O. P. 1914 A, 26.
1924 D, 305. Pleistocene; Nebraska.
1927 D, 128, 190, 243. Pleistocene; Oregon.
McCornack, E. C. 1920 A, 23. Pleistocene (Fossil Lake); Oregon.
Matthew, W. D. 1902 F, 317, 320.
1918 A, 227.
Matthew and Cook 1909 A, 380.
Miller, L. H. 1912 A, 81. Pleistocene (Fossil Lake); Oregon.
Osborn, H. F. 1910 B, 457, 466, 475.
Stock, C. 1925 A, 195. Pleistocene (Fossil Lake); Oregon.

Superfamily MUROIDÆ, new form.

Unless otherwise indicated the authors here cited use for this superfamily the name Myomorpha.

Hay, O. P. 1902 A, 726.
Ameghino, F. 1893 B, 444.
1893 D, 15.
1912 B, 170, 172.
Anonymous 1897 B, 368.
Arldt, T. 1907 D, 667.
Beddard, F. E. 1902 A, 469.
Bovero, A. 1905 A, 119.
Cockerell, Miller and Prinz 1914 A, 349.
Dawson, A. B. 1925 A, 205, figs. 1, 2 ("rats").
Doran, A. H. G. 1878 A, 418.
Giebel, C. G. 1865 C, 430 ("muriformen").
Gill, T. 1872 B, 20 (Myoidea).
Gregory, W. K. 1910 A, 330.
1914 G, 380.
Hogben, L. T. 1919 A, 72.
Matthew, W. D. 1910 B, 64, 66, 69.
1914 H, 350.
Matthew, W. D. 1915 A, 233.
Miller and Gidley 1918 A, 435 (Myoidæ).
Rehs, J. 1914 A, 69, 92 (Myomorphi).
Schapiro, B. 1913 A, 209.
Schlosser, M. 1902 I, 708 (Myomorphi).
Seeley, H. G. 1886 A, 514.
Terra, P. 1911 A, 302 (Muridæ).
Thomas, L. J. 1926 A, 59-68, 11 figs. ("mouse").
Trouessart, E. L. 1904 A, 348.
Wagner, A. 1841 A, 123 (Murini).
Waterhouse, G. R. 1839 D, 92 (Murina).
1842 A, 200 (Muridæ).
Weber, M. 1904 A, 489.
Weber and Abel 1928 A, 280 (Myoidea).
Weber and Burlet 1927 A, xiv (Myoidea).
Winge, H. 1888 A, 155.
1924 A, 8, 30 (Muridæ).
Woodward, A. S. 1898 B, 379.
Zittel and Schlosser 1911 A, 429 (Myoidea).
1923 A, 513 (Myoidea).

MURIDÆ Gray.

Gray, J. E. 1821 A, 303.
Hay, O. P. 1902 A, 726.
Adams, L. A. 1919 A, 117, pl. x (Mus).
Addison and Appleton 1915 A, 43, figs. 1-29 ("rat").
Adloff, P. 1913 A, 238 ("ratte").
Ahrens, H. 1912 A, 513.
Anthony, R. 1912 A.
Arldt, T. 1907 D, 666.
Beddard, F. E. 1902 A, 471 (Muridæ, Murinæ).
Bonaparte, C. L. 1832 A, 288.
Brandt and Woldrich 1887 A, 66 (Murina).
Caush, D. E. 1904 A, 157 ("rats").
Chandler, A. C. 1914 B, 134.
Coues, E. 1875 D, 173.
Cuvier, F. 1812 A, 279, pl. xv, fig. 3 ("rats").
1825 A, 166 ("rats").
Cuvier, G. 1805 A ("rats").
Doran, A. H. G. 1878 A, 410.
Drüner, L. 1904 A, 258, figs. 1-16, 19 ("maus").
Elliot, D. G. 1901 A, 117.
Freund, P. 1892 A, 525.
Fuchs, H. 1905 B, 161 ("maus").
Gaupp, E. 1910 C (Mus).
Gegenbaur, C. 1864 C, 181 ("murinen").
1865 C, 550, fig. 3 (Mus).
Gervais, P. 1859 A, 38 ("muridés").
Giebel, C. G. 1883 A ("murinen").
Hinton, M. A. C. 1923 A, 162.
Hoernes, R. 1886 A, 690.
Hrdlička, A. 1903 A, 381.
Jenkinson, F. W. 1911 A, 305, figs. 1-8 ("mouse").
Kampfen, P. N. 1905 A, 553.
Kravets, L. P. 1906 A, 50 (Mus).
Krukenberg, A. 1849 A, 413 ("ratte").
Krumbach, T. 1904 A, 279 ("muriden").

Leche, W. 1887 A.
Ledouble, A. F. 1906 A, 550 ("rats").
Leunis and Ludwig 1883 A, 219.
Lobley, J. L. 1908 A, 195, 200, 205.
Mahn, R. 1890 A, 654, pl. xxv (Mus).
Major, C. J. F. 1899 A, 473.
Matthew, W. D. 1909 C, 105, 107, 110, 116, 119.
1910 B, 72.
1913 B, 291.
1915 K, fig. 17 ("mice").
Meckel, J. F. 1825 A ("ratten").
Miller, G. S. 1912 A, 591.
1912 B, 126.
Miller and Gidley 1918 A, 438.
Nowikoff, M. M. 1909 A, 1 (Mus).
Osborn, H. F. 1909 D, 63, 66.
1910 B, 221, 230, 536.
Owen, R. 1866 B, 378.
1868 A, 299.
Paterson, A. M. 1901 A, 21 ("rat").
1902 A, 777 ("rat").
Pictet, F. J. 1853 A, 245 ("murins").
Pouchet and Chabry 1884 A, 171 ("rat").
Rehs, J. 1914 A, 69, 93.
Reichert, K. B. 1849 A, 447 ("maus").
Roetter, F. 1889 A, 456, pl. vii (Mus).
Schapiro, B. 1913 A, 276.
Schlosser, M. 1902 I, 708.
Tims, H. W. M. 1903 A, 143.
Tornier, G. 1891 A, 119 ("muriden").
Tourneux, F., and J. P. 1912 A, 72, fig. 7 ("rat").
Trouessart, E. L. 1878 A, 10.
Wagner, A. 1841 A, 123 (Murina).
Wallace, A. R. 1876 A, I, 147; II, 229.
1894 A, 436.
Waterhouse, G. R. 1839 C, 173.
Weber, M. 1904 A, 502, 512 (Muridæ); 513 (Murinæ).
Weber and Abel 1928 A, 282.
Weiss, A. 1901 A, 500 ("ratte").
Woodward, A. S. 1898 E, 332 ("rats, mice").

At present no genera of North American fossil vertebrates are referred to this family.

ISCHYROMYIDÆ Alston.

Alston, E. R. 1876 A, 67, 78.
Hay, O. P. 1902 A, 723.
Arldt, T. 1907 D, 660.
1912 A, 698.
Cockerell, Miller, and Prinz 1914 A, 350 ("ischyromids").
Cope, E. D. 1874 B, 477 (Protomyidæ).
1880 U, 156 (Protomyidæ).
1884 O, 37 (Protomyidæ).
Coues, E. 1883 A, 117.
Gregory, W. K. 1920 A, 24, 243.
Hilzheimer, M. 1913 A, 569 (Ischyromyinæ).
Matthew, W. D. 1905 D, 53.
1909 C, 94, 97, 99, 101, 104, 105, 110.
1909 D, 300.
1910 B, 43, 44, 64, 69, 71.
1912 B, 186.
1914 B, 387.
1915 A, 231, 233.
1915 K, 474.
Matthew, W. D. 1918 H, 614.
Matthew and Granger 1925 B, 7.
Miller and Gidley 1918 A, 436.
1920 A, 73.
Osborn, H. F. 1909 D, 128.
1910 B, 619.
Palmer, T. S. 1904 A, 748, 849.
Scharff, R. F. 1911 A, 228.
Schlosser, M. 1902 I, 708 (Ischyromyinæ).
1911 A, 166 ("ischyromyiden").
Scott, W. B. 1913 A, 280.
Taylor, W. P. 1915 A, 167.
Trouessart, E. L. 1904 A, 476 (Ischyromidæ, Ischyromyinæ).
Troxell, E. L. 1922 A, 123.
1923 D, 395.
Weber and Abel 1928 A, 271, 296.
Winge, H. 1924 A, 7, 16 (Ischyromyini).
Zittel and Schlosser 1911 A, 425.
1923 A, 509, 518, 670 (Ischyromyinæ).

Ischyromys Leidy. Type *I. typus* Leidy.

Hay, O. P. 1902 A, 725.
Douglass, E. 1905 A, 211.
1909 C, 231, 283, 285.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 365.
Kraglievich, L. 1926 C, 47.
Matthew, W. D. 1901 B, 369, 370.
1909 C, 110.
1910 B, 43, 61, 62, 71, 63 (Titanotheriomys, subg.).
1924 E, 748.
Matthew and Granger 1923 B, 4.
Osborn, H. F. 1909 D, 61.
1910 B, 534.
Palmer, T. S. 1904 A, 352, 850.
Schlosser, M. 1902 I, 707.
Scott, W. B. 1913 A, 254.
Seeley, H. G. 1886 A, 515.
Sinclair, W. J. 1924 A, 119.
Troxell, E. L. 1922 A, 123.
Troxell, E. L. 1923 D, 385, 390, 393, figs. 21, 22.
Wallace, A. R. 1876 A, I, 140.
Weber and Abel 1928 A, 296.
Winge, H. 1924 A, 15.
Zittel and Schlosser 1911 A, 425.
1923 A, 509, 518.

Ischyromys chrysodon (Cope).

Cope, E. D. 1873 T, 5 (Gymnoptychus).
Hay, O. P. 1902 A, 725 (I. typus, in part).
Miller and Gidley 1920 A, 74.

Oligocene (White River); region of Nebraska, South Dakota or Colorado.

Ischyromys cristatus (Cope).

Cope, E. D. 1873 S, 1 (Colotaxis).
Hay, O. P. 1902 A, 725 (I. typus, in part).
Matthew, W. D. 1909 C, 105.
1910 B, 62.

Middle Oligocene (Cedar Creek); Colorado.

Ischyromys parvidens Miller and Gidley.

Miller and Gidley 1920 A, 73.
Oligocene (White River); South Dakota.

Ischyromys pliacus Troxell.

Troxell, E. L. 1922 A, 124, fig. 1.
Oligocene (Lower Oreodon); Colorado.

Ischyromys typus Leidy.

Hay, O. P. 1902 A, 725.
Cook, H. J. 1912 D, 36.
Douglass, E. 1901 B, 242.
1903 A, 149.
Lambe, L. M. 1905 D, 368 A.
1908 A, 11, 56, pl. viii, fig. 18.
Matthew, W. D. 1901 B, 357.
1909 C, 105.
1910 B, 62, figs. 16-18.
Miller and Gidley 1920 A, 74.
O'Harra, C. C. 1910 A, 87, 127.
1920 A, 151.
Sinclair, W. J. 1924 A, 102.
Trouessart, E. L. 1904 A, 478.
Troxell, E. L. 1922 A, 123, fig. 6.
Zittel and Schlosser 1911 A, 425, fig. 590.
1923 A, 509, fig. 630.
Middle Oligocene (Brule); Nebraska: (White River); Montana: (Cypress Hills); Saskatchewan.

Ischyromys typus lloydi Troxell.

Troxell, E. L. 1922 A, 125, figs. 4, 5, 7.
1923 D, 393, figs. 19, 20.
Oligocene (Lower Brule); Nebraska.

Ischyromys typus nanus Troxell.

Troxell, E. L. 1922 A, 124, figs. 2, 3.
Oligocene (Lower Oreodon); Colorado.

TITANOTHERIOMYS Matthew. Type *Ischyromys veterior* Matthew.

Matthew, W. D. 1910 B, 63 (As subgenus).
Miller and Gidley 1920 A, 73, 74.

Titanotheriomys veterior (Matthew).

Matthew, W. D. 1903 B, 211 (Ischyromys).
Granger, W. 1910 A, 240 (Ischyromys).
Matthew, W. D. 1908 C, 104 (Ischyromys).
1910 B, 63 [I. (Titanotheriomys)].
Miller and Gidley 1920 A, 73, 74.
Troxell, E. L. 1922 A, 123.
Zittel and Schlosser 1911 A, 425 ("Titanotheriomys").
Lower Oligocene (White River); Montana, Wyoming.

CRICETIDÆ Rochebrune.

Rochebrune, A. T. 1883.
Hay, O. P. 1902 A, 726 (Muridæ, part).
Brubacher, H. 1892 A, 3 (Cricetus).
Cockerell, Miller, and Printz 1914 A, 349 (Cricetinæ).
Cockerell and Prinz 1914 A, 351 (Cricetinæ).
Coues, E. 1883 A, 103 (Arvicolinæ); 113 (Cricetinæ).
Denker, A. 1901 A, 661 (Cricetus).
Depéret, C. 1907 B ("cricétidés").
Gervais, P. 1852 A, 25 (Cricetus).
1859 A, 43 (Cricetes).
Hay, O. P. 1923 A, 312.
Matthew, W. D. 1914 H, 350 (Cricetinæ).
Matthew and Granger 1923 B, 3.
Miller, G. S. 1912 B, 126 (Cricetinæ).
1924 C, 300.
Miller and Gidley 1918 A, 436.
Palmer, T. S. 1904 A, 851.
Roger, O. 1896 A, 120.
Schwarz, E. 1924 A, 422 (Cricetus).
Taschenberg, O. 1899 A, 4534 (Cricetus).
Terra, P. 1911 A, 303.
Thomas, O. 1916 B, 139 (Muridæ).
Trouessart, E. L. 1904 A, 393 (Cricetinæ).
Waterhouse, G. R. 1839 D, 274 (Muridæ, in part).
Weber and Abel 1928 A, 282 (Cricetinæ).
Winge, H. 1924 A, 8, 55 (Cricetini).

CRICETINÆ Flower and Lydekker.

Flower and Lydekker 1891 A, 463.
Hay, O. P. 1902 A, 726 (Cricetinæ); 727 (Neotominæ).
Ameghino, F. 1889 A, 1014 (Hesperomyidæ).
1912 B, 173 (Cricetinæ); 174 (Neotominæ).
Arldt, T. 1907 B, 450 (Hesperomyinæ).
1907 D, 648 (Cricetidæ).
1912 A, 742 (Neotominæ, Sigmodontinæ).
Beddard, F. E. 1902 A, 479 (Sigmodontinæ); 480 (Neotominæ).
Cockerell and Prinz 1914 A, 354 (Neotominæ); 356 (Sigmodontinæ).
Coues, E. 1875 D, 174 ("sigmodont series").
Depéret, C. 1912 A, 708 ("cricetidés").
Elliot, D. G. 1901 A, 154 (Neotominæ).
Flower, W. H. 1883 D, 419.
Freund, P. 1892 A, 548 (Cricetus).
Goldman, E. A. 1910 A, 13 (Neotominæ).
1918 A, 3.
Hinton, M. A. C. 1923 A, 166.
Matthew, W. D. 1915 A, 228.
Merriam, C. H. 1894 A, 225, 228 (Neotominæ).
Miller, G. S. 1912 B, 126.
1924 C, 300.
Rehs, J. 1914 A, 69, 93 (Hesperomyidæ).
Schlosser, M. 1902 I, 708 (Cricetidæ).
Thomas, O. 1896 A, 1019 (Sigmodontinæ).
Trouessart, E. L. 1878 A, 10 (Hesperomyinæ).
1897 A, 511 (Sigmodontinæ); 540 (Neotominæ).
1904 A, 397 (Sigmodontinæ); 438 (Neotominæ).
Weber, M. 1904 A, 502 (Cricetinæ, Sigmodontinæ).
Weber and Abel 1928 A, 283 (Cricetinæ, Microtinæ).
Winge, H. 1888 A, 125 (Cricetini).
Zittel and Schlosser 1911 A, 429 (Cricetinæ); 430 (Hesperomyinæ).
1923 A, 513, 518 (Cricetinæ, Hesperomyinæ)

Pareumys Peterson. Type *P. milleri* Peterson.

Peterson, O. A. 1919 A, 66.

Pareumys milleri Peterson.

Peterson, O. A. 1919 A, 66, fig. 7.
Upper Eocene (Uinta); Utah.

Eumys Leidy. Type *E. elegans* Leidy.

Hay, O. P. 1902 A, 726.
Ameghino, F. 1912 B, 172.
Depéret, C. 1912 A, 708.
Douglass, E. 1909 C, 231, 285.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1901 B, 369.
1909 C, 110.
1910 B, 68, 72.
Matthew and Granger 1924 A, 6.
Miller, G. S. 1927 A, 19.
Osborn, H. F. 1910 B, 221, 536.
Palmer, T. S. 1904 A, 276, 852.
Peterson, O. A. 1905 A, 174.
Schlosser, M. 1911 A, 166.
Sinclair, W. J. 1924 A, 119.
Wallace, A. R. 1876 A, I, 140.
Weber, M. 1904 A, 512.
Winge, H. 1888 A, 109, 156.
1924 A, 30, 54.
Zittel and Schlosser 1911 A, 430.
1923 A, 514.

Eumys elegans Leidy.

Hay, O. P. 1902 A, 726.
Cook, H. J. 1912 D, 36.
Matthew, W. D. 1901 B, 357.
1909 C, 105.
O'Harra, C. C. 1910 A, 88, 127.
1920 A, 151.
Seeley, H. G. 1886 A, 515.
Sinclair, W. J. 1924 A, 102.
Oligocene (Brule); region of South Dakota, Nebraska, Colorado?

Eumys minor Douglass.

Douglass, E. 1901 B, 242, 252.
Trouessart, E. L. 1904 A, 397.
Oligocene (White River); Montana.

Onychomys Baird. Type *Hypudæus leucogaster* Wiedman.

Baird, S. F. 1857 A, 458.
Miller, G. S. 1912 B, 126.
1924 C, 300.
Palmer, T. S. 1904 A, 476.

Onychomys bensoni Gidley.

Gidley, J. W. 1922 B, 120, 125 pl. xxxv, fig. 3.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Onychomys pedroensis Gidley.

Gidley, J. W. 1922 B, 120, 125, pl. xxxv, fig. 1.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Onychomys torridus ramona (Rhoads).

Rhoads, S. N. 1893, Amer. Naturalist, xxvii, 833 (O. ramona).
Dice, L. R. 1925 A, 123.
Hay, O. P. 1927 D, 183.
Merriam, C. H. 1904, Proc. Biol. Soc. Wash., xvii, 124 (O. t. ramona).
Miller, G. S. 1912 B, 128 (O. ramona).
1924 C, 305.
Recent; southern California and Lower California: Pleistocene (La Brea); California.

Reithrodontomys Giglioli. Type *Mus lecontei* Audubon and Bachman.

Giglioli, E. H. 1873, Richerche int. Dist. Geog. Gen. Roma, 160.
Allen, J. A. 1892 A.
Ameghino, F. 1889 A, 1024 (Reithrodon).
1912 B, 179.
Baird, S. F. 1857 A, 447 (Reithrodon, preoccupied).
Elliot, D. G. 1901 A, 148.
Howell, A. H. 1914 A, 1-81, pls. i-vii, text-figs. 1-6.
Lilljeborg, W. 1866 A, 17 (Reithrodon).
Matthew, W. D. 1910 B, 72.
1915 K, 402.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 129.
1924 C, 306.
Osborn, H. F. 1909 D, 90.
Palmer, T. S. 1904 A, 602, 853 (Reithrodon, Reithrodontomys).
Scott, W. B. 1913 A, 182 (Rheithroden).
Trouessart, E. L. 1904 A, 424.
Weber, M. 1904 A, 502.

Reithrodontomys megalotis longicauda (Baird).

Baird, S. F. 1857 A, 451 (Reithrodon longicauda).
Dice, L. R. 1925 A, 123 (R. m. longicaudus).
Grinnell, T. 1913, Proc. Calif. Acad. Sci. (4), III, 303.
Hay, O. P. 1927 D, 183.
Miller, G. S. 1912 B, 133 (R. l. longicauda).
1924 C, 308 (R. m. longicaudus).
Recent; Oregon to Lower California: Pleistocene (La Brea); California.

Reithrodontomys simplicidens B. Brown.

Brown, B. 1908 A, 196, pl. xxi.
Hay, O. P. 1924 D, 251.
Pleistocene (Middle); Arkansas.

ELIGMODONTIA Cuvier. Type *E. typus* Cuvier.

Cuvier, F. 1837, Ann. Sci. Nat. (2), VII, 169.
Thomas, O. 1916 B, 140.

Eligmodontia arizonæ Gidley.

Gidley, J. W. 1922 B, 120, 124, pl. xxxiv, fig. 15.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

PEROMYSCUS Gloger. Type *P. arboreus* Gloger.

Gloger, C. W. L. 1841, Hand- u. Hilfsbuch Naturgesch., xxx, 95.
Hay, O. P. 1902 A, 726.
Ameghino, F. 1889 A, 1014 (Hesperomys).
1912 B, 172.
Arldt, T. 1907 D, 118 (Hesperomys).
Cockerell and Prinz 1914 A, 356, figs. 25-27.
Coues, E. 1875 D, 176 (Hesperomys).
1883 A, 107, 110 (Hesperomys).
Elliot, D. G. 1901 A, 123.
Frech and Geinitz 1903 A, 39 (Hesperomys).
Gaupp, E. 1913 A, 125 (Hesperomys).
Giebel, C. G. 1855 A, 50, pl. xxi, fig. 7.
1883 A, pls. xxviii, xcii (Hesperomys).
Haug, E. 1911 A, 1706, 1886 (Hesperomys).
Heilprin, A. 1887 A, 355, 365 (Hesperomys).
Kraglievich, L. 1926 C, 47 (Hesperomys).
Leche, W. 1887 A (Hesperomys).
Lilljeborg, W. 1866 A, 17 (Hesperomys).
Lull, R. S. 1922 C, 603.
Matthew, W. D. 1909 C, 110, 119 (Peromyscus); 118 (Hesperomys).
1910 B, 72.
1915 K, 402.
Miller, G. S. 1912 B, 138.
1924 C, 318.
1927 A, 19 (Hesperomys).
Osborn, H. F. 1909 D, 90.
1910 B, 470, 537 (Hesperomys).
1915 B, 207.
1915 D, 284.
1921 D, 6.
1926 C, 340.
Osgood, W. H. 1909 A.
Palmer, T. S. 1904 A, 525, 853.
Rehs, J. 1914 A, 69, 93 (Hesperomys).
Schlosser, M. 1902 I, 738 (Hesperomys).
1924 A, 43 (Hesperomys).
Seton, E. S. 1909 A, 490, text-figs. 144-146, map 27.
Thomas, O. 1895 A, 190, 192.
Trouessart, E. L. 1904 A, 399.
Van den Broeck, A. J. P. 1912 A, 783 (Hesperomys).
Wallace, A. R. 1876 A, I, 140, 145, 147 (Hesperomys).
Weber, M. 1904 A, 502 (Hesperomys).
Weber and Abel 1928 A, 283.
Winge, H. 1888 A, 11, 109, 124, 156 (Hesperomys).
1924 A, 8, 34, 35, 56 (Hesperomys).
Zittel and Schlosser 1911 A, 430 (Hesperomys).
1923 A, 514, 672, fig. 638 (Peromyscus, Hesperomys).

Peromyscus antiquus Kellogg.

Kellogg, L. 1910 A, 432, fig. 16.
Merriam, J. C. 1911 B, 211, 213, 214, 253, 255.
1917 A, 429.
Pliocene (Thousand Creek); Nevada.

Peromyscus boylii (Baird).

Baird, S. F. 1855, Proc. Acad. Nat. Sci. Phila., VII, 335 (Hesperomys).
1857 A, 471, pl. viii, fig. 3 (Hesperomys).
Hay, O. P. 1927 D, 223.
Miller, G. S. 1912 B, 157.
1924 C, 338.
Osgood, W. H. 1909 A, 142, pl. iv, fig. 1; pl. vii, fig. 9 (P. boylei).
Stock, C. 1918 A, 468 (P. boylei).
1925 A, 113 (P. boylei).
Recent; Mt. Shasta to Guatamala: Pleistocene; California.

Peromyscus brachygnathus Gidley.

Gidley, J. W. 1922 B, 120, 124, pl. xxxiv, fig. 12.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Peromyscus imperfectus Dice.

Dice, L. R. 1925 A, 123, figs. 1, 2.
Hay, O. P. 1927 D, 183.
Pleistocene (La Brea); California.

Peromyscus leucopus (Rafinesque).

Hay, O. P. 1902 A, 726.
Coues, E. 1875 D, 178 (Hesperomys).
1883 A, 110, fig. 55 (Hesperomys).
Elliot, D. G. 1901 A, 124, fig. 30 (P. americanus).
Gidley, J. W. 1913 B, 96.
Hay, O. P. 1923 A, 493.
Lull, R. S. 1917 B, 373.
Mercer, H. C. 1894 A, 98 ("white-footed mouse").
Miller, G. S. 1912 B, 153.
1924 C, 334.
Osgood, W. H. 1909 A, 113, pl. vi, fig. 4, text-fig. 2.
Rhoads, S. N. 1903 A, 243.
Recent; Nova Scotia to Montana, south to Florida and Yucatan: Pleistocene; Maryland, Virginia, Pennsylvania.

Peromyscus loxodon (Cope).

Cope, E. D. 1874 U, 150 (Hesperomys).
Hay, O. P. 1902 A, 727.
Matthew, W. D. 1909 C, 116 (Hesperomys, Peromycus).
Merrill, G. P. 1907 A, 37 (Eumys, Hesperomys).
Upper Miocene (Arikaree); New Mexico.

Peromyscus maniculatus gambelii (Baird).

Baird, S. F. 1857 A, 464 (Hesperomys gambelii).
Hay, O. P. 1927 D, 183, 190, 214.
Kellogg, L. 1912 A, 158 (P. m. gambeli); 166 (P. gambeli?).
Miller, G. S. 1912 B, 146.
Osborn, H. F. 1926 C, 340 (P. m. gambeli).
Osgood, W. H. 1909 A, 67 (P. m. gambeli).

Stock, C. 1918 A, 469 (P. m. gambeli).
1925 A, 113 (P. m. gambeli).
Recent; Lower California to central Washington: Pleistocene (La Brea, Samwel Cave); California.

Peromyscus maniculatus gracilis (LeConte).

LeConte, J. L. 1855, Proc. Acad. Nat. Sci. Phila., VII, 442 (Hesperomys gracilis).
Miller, G. S. 1893, Proc, Biol, Soc. Wash., VIII, 55 (Sitomys americanus canadensis).
1924 C, 323.
Osgood, W. H. 1909 A, 42.
Peterson, O. A. 1926 A, 276 (P. canadensis).
Recent; Minnesota to Michigan and New England: Pleistocene; Pennsylvania.

Peromyscus minimus Gidley.

Gidley, J. W. 1922 B, 120, 124, pl. xxxiv, fig. 13.
Pleistocene (San Pedro Valley); Arizona.

Peromyscus nematodon (Cope).

Hay, O. P. 1902 A, 727.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 188, 190.
Seeley, H. G. 1886 A, 515 (Hesperomys).
Upper Oligocene (John Day); Oregon.

Peromyscus parvus Sinclair.

Sinclair, W. J. 1905 A, 126, pl. xiv, figs. 4-5.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185, 188, 190.
Upper Oligocene (John Day); Oregon.

Peromyscus sp. indet.

Brown, B. 1908 A, 195. Pleistocene; Arkansas.
Gidley, J. W. 1922 B, 120, 124, pl. xxxiv, fig. 14.
Pleistocene (San Pedro Valley); Arizona.
Hay, O. P. 1914 A, 32.
1920 B, 140. Pleistocene; Texas.
1924 D, 247, 251. Pleistocene; Arkansas, Texas.
1927 D, 136. Pleistocene; Arizona.
Kellogg, L. 1910 A, 433. Pleistocene; Nevada.
Merriam, J. C. 1911 B, 253, 255 (This genus?). Pliocene (Thousand Creek); Nevada.
Merriam and Sinclair 1907 A, 196. Upper Miocene (Mascall); Oregon.
Rhoads, S. N. 1903 A, 243. Pleistocene (Port Kennedy): Pleistocene or Recent (Durham Cave); Pennsylvania.

ORYZOMYS Baird. Type *Mus palustris* Harlan.

Baird, S. F. 1857 A, 458.
Cockerell and Prinz 1914 A, 356, figs. 28, 29.
Coues, E. 1875 D, 183 [Hesperomys (Oryzomys)].
Elliot, D. G. 1901 A, 146.
Goldman, A. E. 1918 A, 1-43, pls. i-vi.
Kampfen, P. N. 1905 A, 556.
Merriam, C. H. 1901 B, 273.
Miller, G. S. 1912 B, 171.
1924 C, 352.
Palmer, T. S. 1904 A, 485, 853.
Trouessart, E. L. 1904 A, 415.

Oryzomys palustris natator Chapman.

Chapman, F. M. 1893, Bull. Amer. Mus. Nat. Hist., v, 44.
Elliot, D. G. 1901 A, 147.
Goldman, A. E. 1918 A, 24.
Hay, O. P. 1917 E, 45 (O. natator?).
1923 A, 382 (O. palustris).
Merriam, C. H. 1901 B, 277 (O. natator natator).
Miller, G. S. 1912 B, 171 (O. natator natator).
1924 C, 352.
Simpson, G. G. 1928 H, 2 (O. palustris).
Trouessart, E. L. 1904 A, 415.
Recent; Florida: Pleistocene; Florida.

PAUROMYS Troxell. Type *P. perditus* Troxell.

Troxell, E. T. 1923 B, 155.
1923 D, 395.

Pauromys perditus Troxell.

Troxell, E. T. 1923 B, 155, fig. 1.
Middle Eocene (Bridger); Wyoming.

SIGMODON Say and Ord. Type *S. hispidus* Say and Ord.

Say and Ord 1825, Jour. Acad. Nat. Sci., Phila., IV, 352.
Ameghino, F. 1912 B, 179.
Cockerell and Prinz 1914 A, 357, figs. 36-39.
Coues, E. 1875 D, 175.
1883 A, 111.
Elliot, D. G. 1901 A, 143.
Lilljeborg, W. 1866 A, 18.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 181.
1924 C, 369.
1927 A, 17.
Palmer, T. S. 1904 A, 630, 853.
Schlosser, M. 1924 A, 42.
Schwarz, E. 1924 A, 422.
Scott, W. B. 1913 A, 163.
Trouessart, E. L. 1904 A, 412.
Wagner, A. 1841 A, 125.
Weber and Abel 1928 A, 283.
Winge, H. 1888 A, 11, 109, 124.
1924 A, 8, 34, 36, 56, 125.

Sigmodon curtisi Gidley.

Gidley, J. W. 1922 B, 120, 125, pl. xxxv, fig. 2.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Sigmodon hispidus Say and Ord.

Say and Ord 1825, Jour. Acad. Nat. Sci., Phila., IV, 354, pl. xxii, figs. 5-8.
Baker, F. C. 1920 A, 373.
Bangs, O. 1898 A, 190.
Coues, E. 1875 D, 176.
1883 A, 112, fig. 57.

Elliot, D. G. 1901 A, 144, fig. 31.
Hay, O. P. 1917 E, 45.
1923 A, 382.
Miller, G. S. 1912 B, 181.
1924 C, 369.
Sellards, E. H. 1916 C, 151, 158, pl. xxix, fig. 4 (S. sp.).
1916 D, 616 (S. sp.).
1916 E, 16, 17 (S. sp.).
Simpson, G. G. 1928 H, 2.
Trouessart, E. L. 1904 A, 412.
Recent; Florida to North Carolina and Louisiana: Pleistocene; Florida.

Sigmodon medius Gidley.

Gidley, J. W. 1922 B, 120, 126, pl. xxxv, figs. 6, 7.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Sigmodon minor Gidley.

Gidley, J. W. 1922 B, 120, 125, pl. xxv, figs. 4, 5.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Sigmodon sp. indet.

Hay, O. P. 1923 A, 382. Pleistocene (Early); Florida.

NEOTOMA Say and Ord. Type *N. floridana* Say and Ord.

Hay, O. P. 1902 A, 727.
Adams, C. C. 1905 A, 64 ("woodrats").
Allen, J. A. 1892 A.
1894 A, 233, pl. iv.
Ameghino, F. 1912 B, 179.
Brauer, A. 1914 A, 282.
Cockerell and Prinz 1914 A, 354, figs. 6-15.
Coues, E. 1875 D, 174.
1883 A, 111.
Elliot, D. G. 1901 A, 154.
Goldman, E. A. 1910 A, 13.
Howell, A. B. 1926 A, 6 (Neotoma, Teonoma, Homodontomys).
Hrdlička, A. 1903 A, 381.
Kampfen, P. N. 1905 A, 570.
Ledouble, A. F. 1906 A, 550.
Lilljeborg, W. 1866 A, 18.
Matthew, W. D. 1910 B, 72.
1915 K, 403.
Merriam, C. H. 1892 A, 61.
1894 B, 117.
Miller, G. S. 1912 B, 188.
1924 C, 376.
1927 A, 18.
Osborn, H. F. 1909 D, 90.
1910 B, 447 (Teonoma).
Palmer, T. S. 1904 A, 456, 859.
Rehs, J. 1914 A, 93.
Schlosser M. 1924 A, 43
Scott, W. B. 1913 A, 153, 164.
Sinclair, W. J. 1905 B, 148 (Teonoma).
Trouessart, E. L. 1904 A, 439.
Wagner, A. 1841 A, 125.
Wallace, A. R. 1876 A, II, 230.
Winge, H. 1888 A, 109, 124, 156.
1924 A, 8, 34, 36, 56, 125.
Zittel and Schlosser 1923 A, 514.

Neotoma cinerea cinerea (Ord).

Ord, G. 1815, Guthrie's Geogr. 2d ed., II, 292 (Mus).
Baird, S. F. 1857 A, 499.
Hay, O. P. 1921 A, 628.
1923 A, 9.
1927 D, 129 (N. cinerea).
Howell, A. B. 1926 A, 9 [Neotoma (Teonoma)].
Miller, G. S. 1912 B, 201.
1924 C, 390.
Recent; Rocky Mountain region, British Columbia to southern California: Pleistocene (Nebraskan); Arizona.

Neotoma cinerea occidentalis Baird.

Baird, S. F. 1855, Proc. Acad. Nat. Sci. Phila., 1855, 335 (N. occidentalis).
1857 A, 487, 496, pl. ix, fig. 2; pl. xxi, fig. 4; pl. liii, fig. 3 (N. occidentalis).
Furlong, E. L. 1904 A, 55 (N. fuscipes).
1906 A, 245 (N. fuscipes).
1925 A, 144, 152 (N. near occidentalis).
Hay, O. P. 1927 D, 214, 215.
Kellogg, L. 1912 A, 158.
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 202.
1924 C, 391.
Miller, L. H. 1912 A, 70, 73 (N. fuscipes).
Sinclair, W. J. 1903 A, 711 (N. fuscipes).
1904 A, 17 (N. fuscipes).
Stock, C. 1925 A, 113.
Trouessart, E. L. 1897 A, 544 [N. (Teonoma)].
1904 A, 442 [N. (Teonoma)].
Recent; British Columbia to Idaho and Nevada: Pleistocene (caves Shasta Co.); California.

Neotoma floridana Say and Ord.

Hay, O. P. 1902 A, 727.
Baker, F. C. 1920 A, 373 (Neotoma); 464 (Neofiber).
Bangs, O. 1898 A, 183.
Carus and Engelmann 1861 A, 1378.
Coues, E. 1875 D, 174.
1883 A, 111, fig. 58.
Elliot, D. G. 1901 A, 157, fig. 34.
Goldman, E. A. 1910 A, 21, pl. i, fig. 1; pl. vii, fig. 4.
Hay, O. P. 1917 E, 45.
1923 A, 491.
Merriam, C. H. 1894 B, 118.
Miller, G. S. 1912 B, 188.
1924 C, 376.
Waterhouse, G. R. 1839 D, 277.
Recent; eastern half of United States: Pleistocene?; Tennessee, Pennsylvania.

Neotoma fossilis Gidley.

Gidley, J. W. 1922 B, 120, 126, pl. xxxv, figs. 8-10.
Hay, O. P. 1927 D, 136.
Pleistocene (San Pedro Valley); Arizona.

Neotoma fuscipes Baird.

Baird, S. F. 1857 A, 495, pl. liii, fig. 1; pl. liv.
Elliot, D. G. 1901 A, 158.
Goldman, E. A. 1910 A, 87, pl. vii, fig. 1.
Hay, O. P. 1927 D, 223.
Howell, A. B. 1926 A, 11 (Homodontomys).
Merriam, C. H. 1894 B, 118, 124.
Miller, G. S. 1912 B, 199.
1924 C, 389.
Stock, C. 1918 A, 468, 486.
1925 A, 113.
Recent; northern Oregon to Lower California: Pleistocene (Hawver Cave); California.

Neotoma magister Baird.

Hay, O. P. 1902 A, 727.
Baker, F. C. 1920 A, 315.
Coues, E. 1875 D, 174.
Goldman, E. A. 1910 A, 82.
Hay, O. P. 1920 B, 106.
1923 A, 491.
Mercer, H. C. 1894 A, 98 ("wood rat").
1897 A, 42, figs. 2, 17.
Rhoads, S. N. 1903 A, 243.
Trouessart, E. L. 1904 A, 439.
Pleistocene (Late); caves about Carlisle, Pennsylvania, Maryland.

Neotoma ozarkensis B. Brown.

Brown, B. 1908 A, 196, pl.
Hay, O. P. 1914 A, 32.
1924 D, 251.
Pleistocene (Middle); Arkansas.

Neotoma pennsylvanica Stone.

Stone, W. 1893, Proc. Acad. Nat. Sci. Phila., 16.
Goldman, E. A. 1910 A, 83, 84, pl. i, figs. 6, 6a; text-fig. 12.
Hay, O. P. 1920 B, 93.
1923 A, 311, 395.
Leidy, J. 1889 H, 19 (N. floridana).
Merriam, C. H. 1894 A, 244.
Miller, G. S. 1912 B, 139.
1924 C, 388.
Peterson, O. A. 1926 A, 277.
Trouessart, E. L. 1904 A, 439.
Recent; Pennsylvania: Pleistocene; Pennsylvania, Tennessee, Kentucky?, Missouri?

Neotoma spelæa (Sinclair).

Sinclair, W. J. 1905 B, 148, pl. xix, figs. 4-7 (Teonoma).
Goldman, E. A. 1910 A, 95 (Syn.? of N. cinerea).
Kellogg, L. 1912 A, 158 (Syn. of N. cinerea occidentalis).
Sinclair, W. J. 1903 A, 711 (Teonoma sp. nov.).
1904 A, 17 (Teonoma n. sp.).
Pleistocene; California.

Neotoma sp. indet.

Dice, L. R. 1925 A, 124. Pleistocene (La Brea); California.
Freudenberg, W. 1921 A, 139. Pleistocene; Mexico.
1922 A, 4. Pleistocene; Mexico.
Gidley, J. W. 1913 B, 96. Pleistocene (Middle); Maryland.
1920 B, 282 ("wood rats"). Pleistocene (Middle); Maryland.
Hay, O. P. 1923 A, 350. Pleistocene (Middle); Maryland.
1927 D, 171, 172, 183. Pleistocene; California.
Matthew, W. D. 1925 A, 97. Pleistocene (Early); Florida.
Miller, L. H. 1912 A, 73.
Peterson, O. A. 1926 A, 277. Pleistocene; Pennsylvania.
Sellards, E. H. 1916 C, 150, 158 ("Neotoma"). Pleistocene; Florida.
1916 E, 17. Pleistocene; Florida.
Stock, C. 1925 A, 118. Pleistocene (Upper San Pedro); California.

MICROTINÆ Miller.

Miller, G. S. 1896 A, 8.
Hay, O. P. 1902 A, 728.
Arldt, T. 1907 D, 640 (Arvicolidæ).
1912 A, 742.
Bailey, V. 1900 A, 5 ("voles").
Beddard, F. E. 1902 A, 477.
Brandt and Woldrich 1887 A, 76 (Arvicolinæ).
Carus, J. V. 1875 A, 107 (Arvicolina).
Cockerell, Miller, and Prinz 1914 A, 349 (Arvicolidæ).
Cockerell and Printz 1914 A, 351, 352 (Arvicolidæ, Microtinæ).
Dubois, G. 1920 A, 90 ("arvicolidés").
Elliot, D. G. 1901 A, 167.
Giebel, C. G. 1883 A ("arvicolinen").
Gray, J. E. 1821 A, 303 (Arvicolidæ).
Gregory, W. K. 1914 G, 380 (Arvicolidæ).
Hinton, M. A. C. 1923 A, 163.
Hoernes, R. 1886 A, 690 (Arvicolidæ).
Leunis and Ludwig 1883 A, 222 (Arvicolidæ).
Lilljeborg, M. 1866 A, 10, 22 (Arvicolini).
Matthew, W. D. 1914 H, 350 ("arvicolines").
Miller, G. S. 1912 A, 610.
Miller and Gidley 1918 A, 437.
Pictet, F. J. 1853 A, 248 ("campagnols").
Rehs, J. 1914 A, 93 (Arvicolidæ).
Schlosser, M. 1899 M, 361 ("arvicoliden").
1902 I, 708 (Arvicolidæ).
Trouessart, E. L. 1904 A, 442.
Wagner, A. 1841 A, 125 (Arvicolinæ).
1841 B, 83 (Arvicolidæ).
Waterhouse, G. R. 1839 C, 174 (Arvicolidæ).
1839 D, 91, 593 (Arvicolidæ).
1841 B, 83 (Arvicolidæ).
Weber, M. 1904 A, 502.
Winge, H. 1888 A, 156 (Arvicolinæ).
Zittel and Schlosser 1911 A, 430 (Arvicolinæ).

MICROTUS Schrank. Type *M. arvalis* (Pall).

Hay, O. P. 1902 A, 728.
Abel, O. 1908 F, (235).
Allen, J. A. 1892 A (Arvicola).
1903 A.

Ameghino, F. 1889 A, 1006 (Arvicola).
Arldt, T. 1907 D, 316.
Bailey, V. 1900 A, 5.
Beddard, F. E. 1902 A, 477.
Brandt and Woldrich 1887 A, 71 (Arvicola).
Chardin, P. T. 1928 A, 58 (Arvicola).
Cockerell and Prinz 1914 A, 352, figs. 3-5.
Cope, E. D. 1880 U, 158 (Arvicola).
1895 G, 596 (Arvicola).
Coues, E. 1875 D, 187 (Arvicola).
1883 A, 104 (Arvicola).
Dall and Harris 1892 A, 284 (Arvicola).
Depéret, C. 1912 A, 709 (Arvicola).
Doran, A. H. G. 1878 A, 411, pl. lx (Arvicola).
Eggeling, H. 1904 A, 93, figs. 28, 29 (Arvicola).
Elliot, D. G. 1901 A, 178.
Fawcett, E. 1917 A, 309.
Frech, F. 1906 A, 483.
1907 A, 314 ("microtus").
Frech and Geinitz 1903 A, 36 (Arvicola).
Frey, H. 1911 A, 405, fig. 14 (Arvicola).
Gaupp, E. 1912 B, 235 (Arvicola).
Gervais, P 1852 A, 25 (Arvicola).
1859 A, 38 (Arvicola).
Haug, E. 1911 A, 1886.
Heilprin, A. 1887 A, 356, 365 (Arvicola).
Höfer, H. 1911 A, 458.
Hue, E. 1907 A, pl. xliv (Arvicola).
Kampfen, P. N. 1905 A, 557.
Kellogg, R. 1922 B, 245.
Leche, W. 1887 A (Arvicola).
Leunis and Ludwig 1883 A, 223 (Arvicola).
Lilljeborg, W. 1866 A, 19 (Arvicola).
Lull, R. S. 1922 C, 603.
Mahn, R. 1890 A, 664, pl. xxv (Arvicola).
Matthew, W. D. 1902 F, 320.
1910 B, 72.
1915 K, 403.
Merriam, C. H. 1892 A, 62 (Arvicola).
Miller, G. S. 1896 B, 44.
1912 A, 658.
1912 B, 213.
1924 C, 404.
Nehring, A. 1880 A (Arvicola).
1901 C, 465.
Newton, E. T. 1882 A, 81 (Arvicola).
1891 A, 52.
Oehngren, S. 1919 A, 180 (Arvicola).
Osborn, H. F. 1905 I, 110 (Arvicola).
1909 D, 85 (Arvicola).
1910 B, 407 (Arvicola); 457, 470, 477, 537 (Microtus).
1916 B, 535 (Arvicola).
Owen, R. 1845 B, 408, pls. cv, cviii (Arvicola).
1868 A, 862, figs. 237 (Arvicola).
Palmer, T. S. 1904 A, 424, 856.
Paulli, S. 1900 B, 515 (Arvicola).
Pictet, F. J. 1853 A, 248 (Arvicola).
Scharff, R. F. 1911 A, 28, 64, 182, 223.
Schlosser, M. 1902 H, 141.
Scott, W. B. 1913 A, 153, 218.
Seton, E. T. 1909 A, 515.
Taschenberg, O. 1899 A, 4623.
Tims, H. W. M. 1903 A, 142 (Arvicola).
Trouessart, E. L. 1904 A, 448.
Vicq-d'Azyr, F. 1792 A, 377 ("rat-d'eau").
Wallace, A. R. 1876 A, i, 490; ii, 230, 231 (Arvicola).
Waterhouse, G. R. 1839 C, 172 (Arvicola).
1842 A, 200 (Arvicola).
Weber, M. 1904 A, 503.
Weber and Abel 1928 A, 284, fig. 169.
Winge, H. 1888 A, 109, 124, 156 (Arvicola).
1924 A, 8, 34, 38, 44, 56, 119, 139 (Arvicola).
Zittel and Schlosser 1911 A, 431.
1923 A, 514, 518.

Microtus californicus (Peale).

Peale, T. R. 1848, U. S. Expl. Exp., viii, Mamm. and Ornith., 46 (Arvicola).
Bailey, V. 1900 A, 15, 34-37, pl. iv, fig. 7; pl. v, fig. 7; text-fig. 3.
Elliot, D. G. 1901 A, 186.
Furlong, E. L. 1925 A, 139 (This species?).
Hay, O. P. 1927 D, 309.
Kellogg, L. 1912 A, 160.
Kellogg, R. 1918 A, 1-42.
1922 B, 252, figs. c, d.
1922 C, 275.
Merriam and Stock 1925 A, 10.
Miller, G. S. 1912 B, 218.
1924 C, 409.
Miller, L. H. 1912 A, 70.
Sinclair, W. J. 1903 A, 711 ("Arvicola sp.").
1904 A, 17.
Stock, C. 1925 A, 113, 118.
Trouessart, E. L. 1897 A, 563.
1904 A, 453.

Recent; California, north to Umpqua River, Oregon on coast: Pleistocene (Caves); California.

Microtus californicus neglectus Dice.

Dice, L. R. 1925 A, 124.
Hay, O. P. 1927 D, 184.
Kellogg, L. 1912 A, 166 (M. californicus).

Pleistocene (La Brea); California.

Microtus chrotorrhinus Miller.

Miller, G. S. 1894, Proc. Boston Soc. Nat. Hist., xxvi, 190.
Bailey, V. 1900 A, 15, 58, pl. iv, fig. 5; pl. vi, fig. 5.
Elliot, D. G. 1901 A, 193.
Gidley, J. W. 1913 B, 96 (This species?).
Hay, O. P. 1923 A, 350.
Miller, G. S. 1912 B, 224.
1924 C, 418.
Trouessart, E. L. 1897 A, 563.
1904 A, 455.

Recent; New Brunswick, Quebec, Labrador, northern New York and New Hampshire: Pleistocene (Middle); Maryland.

Microtus didelta (Cope).

Hay, O. P. 1902 A, 728.
Baker, F. C. 1920 A, 208, 214, 396.
Hay, O. P. 1923 A, 312 (M. dideltus).
Rhoads, S. N. 1903 A, 245 (M. dideltus).

Pleistocene (Early); Pennsylvania.

Microtus diluvianus Cope.

Hay, O. P. 1902 A, 728.
Baker, F. C. 1920 A, 208, 214, 396.
Hay, O. P. 1923 A, 312.
Rhoads, S. N. 1903 A, 244.

Schlosser, M. 1899 M, 361.
Trouessart, E. L. 1904 A, 451.
Pleistocene (Early); Pennsylvania.

Microtus involutus Cope.

Hay, O. P. 1902 A, 728.
Baker, F. C. 1920 A, 208, 214, 396.
Hay, O. P. 1923 A, 312.
Rhoads, S. N. 1903 A, 245.
Pleistocene (Early); Pennsylvania.

Microtus montanus (Peale).

Peale, T. R. 1848, U. S. Explor. Exp., vii, Mamm. Ornith., 44 (Arvicola).
Bailey, V. 1900 A, 27, fig. 2.
Baird, S. F. 1857 A, 528 (A. montana); 530 (A. longirostris).
Coues, E. 1877 B, 156 (Arvicola riparia, in part).
Howell, A. B. 1924 A, 977, pl. i, figs. 1-25.
Kellogg, R. 1922 B, 245, 23 figs.
Miller, G. S. 1912 B, 216.
1924 C, 408.
Trouessart, E. L. 1897 A, 5631.
1904 A, 452.
Recent; northern California to Utah. North to central and eastern Oregon: Pleistocene (Fossil Lake); Oregon.

Microtus mordax (Merriam).

Merriam, C. H. 1891, N. A. Fauna No. 5, 61 [Arvicola (Mynomes)].
Allen, J. A. 1899, Bull. Amer. Mus. Nat. Hist., xii, 7 (M. vellerosus, M. cautus).
Kellogg, R. 1922 C, 275, pl. viii, 29 text-figs.
Miller, G. S. 1912 B, 221.
1924 C, 415.
Stock, C. 1918 A, 487.
Recent; mountains from British Columbia and Idaho to southern California: Pleistocene (Hawver Cave); California.

Microtus ochrogaster (Wagner).

Wagner, J. A. 1842, Schreber's Säugethiere, Suppl. iii, 592 (Hypudæus).
Bailey, V. 1900 A, 73, pl. iii, fig. 4 (M. austerus).
Brown, B. 1908 A, 198; pl. xxi (M. austerus).
Hay, O. P. 1914 A, 32.
1924 D, 251.
Miller, G. S. 1912 B, 225.
1924 C, 419.
Trouessart, E. L. 1897 A, 554 (M. austerus).
1904 A, 457.
Recent; southern Wisconsin to southern Missouri and Oklahoma west to eastern Nebraska: Pleistocene (Middle); Arkansas.

Microtus pennsylvanicus (Ord).

Ord. G. 1815, Guthrie's Geogr. 2d Amer. ed. 2, 292 (Mus).
Hay, O. P. 1902 A, 729.
Bailey, V. 1900 A, 14, 16-18, pl. i; pl. ii, fig. 1; pl. iii, fig. 1; text-fig. 1.
Baker, F. C. 1920 A, 354, 359, 396.
Elliot, D. G. 1901 A, 179, fig. 38.
Hay, O. P. 1920 B, 93, 106.
1923 A, 490.
Mercer, H. C. 1894 A, 98 ("meadow-mouse").
Miller, G. S. 1912 B, 213.
1924 C, 405.
Peterson, O. A. 1926 A, 277.
Rhoads, S. N. 1903 A, 244.
Scharff, R. F. 1911 A, 27.
Seton, E. T. 1909 A, 515, pl. xxxix; text-figs. 148-152, map 29.
Trouessart, E. L. 1904 A, 451.
Recent; Nova Scotia south to North Carolina, westward to South Dakota and Louisiana: Pleistocene (Middle); Pennsylvania, Tennessee, Nebraska.

Microtus richardsoni (DeKay).

DeKay, J. E. 1842, Zool. of New York, Mamm., 91 (Arvicola).
Bailey, V. 1900 A, 60-62, pl. ii, fig. 3.
Elliot, D. G. 1901 A, 200.
Matthew, W. D. 1902 F, 317 (Arvicola amphibius. This species?).
Miller, G. S. 1912 B, 224.
1924 C, 418.
Trouessart, E. L. 1897 A, 565.
1904 A, 460.
Recent; Alberta to Wyoming west to Washington and Oregon?: Pleistocene (Sheridan); Grayson, Nebraska.

Microtus speothen Cope.

Hay, O. P. 1902 A, 729.
Baker, F. C. 1920 A, 208, 214, 396.
Hay, O. P. 1923 A, 312.
Rhoads, S. N. 1903 A, 244.
Schlosser, M. 1899 M, 361.
Pleistocene; Pennsylvania.

Microtus sp. indet.

Hay, O. P. 1902 A, 729.
Cooke, C. W. 1926 A, 445. Pleistocene; Florida.
Furlong, E. L. 1904 A, 55.
1906 A, 245. Pleistocene (Samwel Cave); California.
Gidley, J. W. 1920 B, 282 ("field mice"). Pleistocene (Middle); Maryland.
Hay, O. P. 1914 A, 38.
1923 A, 343. Pleistocene (Late); Wisconsin.
1924 D, 305. Pleistocene; Nebraska.
1927 D, 242, 243 (Arvicola); 309 (Microtus). Pleistocene (Early); Oregon.
1928 C, 425.
McCornack, E. C. 1920 A, 23. Pleistocene (Fossil Lake); Oregon.
Matthew, W. D. 1902 F, 320 ("sp. div.").
1918 A, 227. Pleistocene (Sheridan); Nebraska.
Miller, L. H. 1912 A, 73. Pleistocene (Samwel Cave); California; 81 (Arvicola sp.). Pleistocene (Fossil Lake); Oregon.
Stock, C. 1918 A, 487. Pleistocene (La Brea); California.
1925 A, 113. Pleistocene (Cave); California: (Fossil Lake); Oregon.

SYNAPTOMYS Baird. Type *S. cooperi* Baird.

Baird, S. F. 1857 A, 558.
Allen, J. A. 1892 A.
Coues, E. 1875 D, 192.
1877 B, 228.
1883 A, 106.
Elliot, D. G. 1901 A, 203.
Merriam, C. H. 1892 A, 61.
1896 C, 55, 57.
Miller, G. S. 1896 A, 8, 9, 16, 32.
1912 B, 204.
1924 C, 393.
Palmer, T. S. 1904 A, 656, 857.
Scharff, R. F. 1911 A, 28.
Scott, W. B. 1913 A, 153.
Seton, E. T. 1909 A, 558.
Simpson, G. G. 1928 H, 3.
Trouessart, E. L. 1904 A, 461.

Synaptomys australis Simpson.

Simpson, G. G. 1928 H, 2, 7, fig. 2.
Pleistocene (Early); Florida.

Synaptomys borealis (Richardson).

Richardson, J. 1828, Zool. Jour., III, 517 (Arvicola).
Gidley, J. W. 1913 B, 96 [S (Myctomys) cf. borealis].
Hay, O. P. 1923 A, 350 (This species?).
Miller, G. S. 1912 B, 205.
1924 C, 395.
Seton, E. T. 1909 A, 558, map 32.
Recent; Mackensie, Canada: Pleistocene (Middle); Maryland?

Synaptomys cooperi annexus Peterson.

Peterson, O. A. 1926 A, 277, fig. 4.
Pleistocene; Pennsylvania.

Synaptomys sp. indet.

Gidley, J. W. 1913 B, 96. Pleistocene (Middle); Maryland.
Hay, O. P. 1923 A, 350. Pleistocene (Middle); Maryland.

DICROSTONYX Gloger. Type *Mus hudsonius?* Pallas.

Gloger, C. W. L. 1841, Hand- u. Hilfsbuch Naturgesch, 97.
Allen, G. M. 1919 A, 509.
Allen, J. A. 1903 A, 483.
Brandt and Woldrich 1887 A, 76 (Myodes).
Coues, E. 1875 D, 195 (Cuniculus).
1883 A, 164 (Cuniculus).
Dubois, G. 1919 A, 69 (Myodes).
1920 A, 95.
Elliot, D. G. 1901 A, 209.
Frech, F. 1906 A, 483.
1907 A, 314 ("dicrotomyx").
Hinton, M. A. C. 1923 A, 164.
Hoernes, R. 1886 A, 690 (Myodes).
Leche, W. 1887 A (Myodes).
Miller, G. S. 1896 A, 38.
1912 B, 207.
1924 C, 397.
Scharff, R. F. 1911 A, 11, 60.
Stejneger, L. 1928 A, 158.
Thomas, O. 1895 A, 190, 192.
Trouessart, E. L. 1904 A, 463.
Vic-d'Azyr, F. 1792 A, 368 ("à collier").
Weber and Abel 1928 A, 241, 284, fig. 154.
Winge, H. 1888 A, 109, 124 (Myodes).
1924 A, 8, 34, 44, 56, 140.

Dicrostonyx grœnlandicus (Traill).

Traill, T. S. 1823, Scoresby's Jour. Voy. Whalefishery, 416 (Mus).
Allen, G. M. 1919 A, 533, pl. i, figs. 3, 10.
Coues, E. 1875 D, 196 (Cuniculus hudsonius).
Elliot, D. G. 1901 A, 209 (D. hudsonius).
Fielden, H. W. 1877 A, 488 (Myodes torquatus).
Fielden and DeRance 1878 A, 566 (Myodes torquatus).
Fischer, J. B. 1829 A, 299 (Mus hudsonius).
Miller, G. S. 1896 A, 40, figs. 13-15 (D. torquatus).
1912 B, 207 (D. hudsonius grœnlandicus).
1924 C, 398.
Scharff, R. F. 1911 A, 11 (D. hudsonius).
Stejneger, L. 1928 A, 159.
Trouessart, E. L. 1904 A, 464 (Syn. of D. hudsonius).
Recent; Greenland to Grinnell Land and Baffin Land: Late Pleistocene or Early Recent; northern Greenland or Grinnell Land, or both.

EVOTOMYS Coues. Type *Mus rutilus* Pallas.

Coues, E. 1875 D (1874), 186.
Bailey, V. 1897 A, 113.
Miller, G. S. 1896 A, 43.
1912 A, 623, figs.
1924 C, 401.

Evotomys gapperi (Vigors).

Vigors, N. A. 1830, Zool. Jour., V, 204 (Arvicola).
Bailey, V. 1897 A, 117, 122.
Merriam, C. H. 1891, N. A. Fauna, XII, 119.
Miller, G. S. 1924 C, 402 (E. gapperi gapperi).
Peterson, O. A. 1926 A, 272.
Recent; From New Jersey to the Rocky Mountains in Canada: Pleistocene; Pennsylvania.

SYCIUM Cope. Type *S. cloacinum* Cope.

Hay, O. P. 1902 A, 728.
Palmer, T. S. 1904 A, 653, 857.
Schlosser, M. 1902 H, 140.

Sycium cloacinum Cope.

Hay, O. P. 1902 A, 728 (Sycium, Anaptogonia).
1923 A, 312.
Rhoads, S. N. 1903 A, 244.
Pleistocene (Early); Pennsylvania.

ANAPTOGONIA Cope. Type *A. hiatidens* Cope.

Hay, O. P. 1902 A, 728.
Palmer, T. S. 1904 A, 100, 855.
Schlosser, M. 1899 M, 361.
1902 H, 140.
Trouessart, E. L. 1904 A, 447.

Anaptogonia hiatidens Cope.

Hay, O. P. 1902 A, 728.
Baker, F. C. 1920 A, 208, 214, 396.
Hay, O. P. 1923 A, 312.
Rhoads, S. N. 1903 A, 244.
Schlosser, M. 1899 M, 361.
Trouessart, E. L. 1904 A, 447.
Pleistocene (Early); Pennsylvania.

PITYMYS McMurtrie. Type *Psammomys pinetorum* LeConte.

McMurtrie, H. 1831, Cuvier's Anim. Kingd., I, App., 434.
Baily, V. 1900 A, 62 (As subgenus).
Coues, E. 1875 D, 191.
Hay, O. P. 1902 A, 728 (Microtus, in part).
Miller, G. S. 1896 A, 58.
1912 B, 228.
1924 C, 423.
Scharff, R. F. 1911 A, 223.
Schlosser, M. 1899 M, 362.

Pitymys pinetorum (Le Conte).

Le Conte, J. L. 1830, Ann. Lyc. Nat. Hist. New York, III, 133 (Psammomys).
Hay, O. P. 1902 A, 729 (Microtus).
Baily, V. 1900 A, 63, fig. 11 (Microtus).
Coues, E. 1875 D, 191 [Arvicola (Pitymys)].
Elliot, D. G. 1901 A, 198 (Microtus).
Miller, G. S. 1912 B, 228.
1924 C, 423.
Recent; Georgia to New York, southern Indiana and Mississippi River: Pleistocene?; Pennsylvania.

NEOFIBER True. Type *N. alleni* True.

True, F. W. 1884 A, 34.
Bailey, V. 1900 A, 78 (Subg. of Microtus).
Elliot, D. G. 1901 A, 202 (Subg. of Microtus).
Frech, F. 1906 A, 483.
Miller, G. S. 1896 A, 9, 17, 19, 69.
1912 B, 229.
1924 C, 424.
Palmer, T. S. 1904 A, 453, 856.
True, F. W. 1884 B, 170.

Neofiber alleni True.

True, F. W. 1884 A, 34.
Bailey, V. 1900 A, 79, fig. 17 (Microtus).
Baker, F. C. 1920 A, 373.
Bangs, O. 1898 A, 182 (Microtus).
Elliot, D. G. 1901 A, 203, fig. 44 [Microtus (Neofiber)].
Harper, F. 1920 A, 65.
Hay, O. P. 1917 E, 45.
1923 A, 382.
Miller, G. S. 1896 A, 70, pl. ii, fig. 9; text-fig. 36.
1912 B, 229.
1924 C, 424.
Sellards, E. H. 1916 C, 139, 150, 158; pl. xxix, fig. 7.
1916 D, 616.
1916 E, 16, 17.
Simpson, G. G. 1928 H, 2.
Trouessart, E. L. 1904 A, 460.
True, F. W. 1884 B, 170.
Recent; Florida: Pleistocene (Early, Middle?); Florida.

Neofiber sp. indet.

Gidley, J. W. 1922 B, 120, 127, pl. xxxv, fig. 14 Pleistocene (San Pedro Valley); Arizona.
1927 E, 274. Pleistocene; Florida.
Hay, O. P. 1927 D, 136, 274. Pleistocene; Arizona, Florida.

ONDATRA Link. Type *Castor zibethicus* (Linnæus).

Link, 1759, Beyträge Naturgesch., I pt. 2, 76.
Hay, O. P. 1902 A, 729 (Fiber).
Allen, J. A. 1892 A (Fiber).
Beddard, F. E. 1902 A, 47 (Fiber).
Carus, V. 1875 A, 107 (Fiber).
Coues, E. 1875 D, 196 (Fiber).
Cuvier, F. 1812 A, 293, pl. xv, fig. 19 ("ondatra").
1825 A, 157, pl. liii ("ondatra").
Cuvier, G. 1809 A, 53.
1825 A, v, 1, 13, 63, pl. i.
Elliot, D. G. 1901 A, 211 (Fiber).
Frech, F. 1906 A, 483 (Fiber).
Giebel, C. S. 1855 A, 51 (Fiber).
1883 A, 155.
Grant, M. 1904 B, 195 (Fiber).
Heilprin, A. 1887 A, 357 (Fiber).
Holland, W. J. 1912 B, 750 (Fiber).
Hollister, H. 1911 A, 14 (Fiber).
1911 C, 13 (Fiber).
Holmes, F. S. 1870 A, 17 ("muskrat").
Kampfen, P. N. 1905 A, 554 (Fiber).
Köstlin, O. 1844 A.
Kükenthal, W. 1891 C, 373, 384 (Fiber).
Leche, W. 1887 A (Fiber).
Le Damany, P. 1906 B, 164.
Leunis and Ludwig 1883 A, 225 (Fiber).
Lobley, J. L. 1908 A, 196 (Fiber).
Matthew, W. D. 1910 B, 72 (Fiber).
1915 K, 403 (Fiber).
Meckel, J. F. 1825 A.
Merriam, C. H. 1892 A, 61 (Fiber).
Miller, G. S. 1896 B, 71 (Fiber).
1912 B, 230.
1924 C, 425.
Osborn, H. F. 1905 I, 110 (Fiber).

Osborn, H. F. 1909 D, 85, 90 (Fiber).
1910 B, 615 (Fiber).
Palmer, T. S. 1904 A, 285, 855 (Fiber); 475, 856 (Ondatra).
Pander and Alton 1824 A, 3, pl. viii (Fiber).
Scharff, R. F. 1911 A, 64, 182 (Fiber).
Scott, W. B. 1913 A, 153 (Fiber).
Taschenberg, O. 1899 A, 4581 (Fiber).
Thomas, O. 1916 A, 303.
Trouessart, E. L. 1904 A, 461 (Fiber).
Vicq-d'Azyr, F. 1792 A, 520 ("ondatra").
Wagner, A. 1841 A, 125 (Fiber).
Waterhouse, G. R. 1839 D, 593.
1842 A, 200.
Weber, M. 1904 A, 503 (Fiber).
Weber and Burlet 1927 A, 251, fig. 190.
Wilder, W. B. 1872 B, 321 (Fiber).
Winge, H. 1888 A, 109, 124, 156 (Fiber).
1924 A, 8, 34, 43, 56 (Fiber).

Ondatra annectens (Brown).

Brown, B. 1908 A, 197, pl. xxi (Fiber).
Hay, O. P. 1914 A, 32 (Fiber).
1924 D, 251.
Hollister, H. 1911 A, 33, pl. vi, fig. 3 (Fiber).
Scharff, R. F. 1911 A, 64 (Fiber).
Pleistocene (Middle); Arkansas.

Ondatra nebrascensis (Hollister).

Hollister, H. 1911 A, 32, pl. vi, fig. 5 (Fiber).
Haug, E. 1911 A, 1886 (Fiber zibethicus).
Hay, O. P. 1924 D, 305.
1928 C, 425.
Matthew, W. D. 1902 F, 317, 320 (Fiber zibethicus).
1918 A, 227.
Pleistocene (Sheridan); Nebraska.

Ondatra oregona (Hollister).

Hollister, H. 1911 A, 33, pl. vi, fig. 4 (Fiber).
Hay, O. P. 1927 D, 190 (Ondatra); 243 (Fiber zibethicus).
McCornack, E. C. 1920 A, 23 (Fiber sp.).
Miller, L. H. 1912 A, 81 (Fiber zibethicus).
Stock, C. 1925 A, 195 (Fiber zibethicus).
Pleistocene (Fossil Lake); Oregon.

Ondatra zibethica (Linnæus).

Unless otherwise indicated the writers, as quoted, use the generic name *Fiber*.

Hay, O. P. 1902 A, 729.
Abel, O. 1912 F, 173.
Agassiz, L. 1859 B, 186 ("muskrat").
Baker, F. C. 1920 A, 459.
Beddard, F. E. 1902 A, 478.
Cockerell and Prinz 1914 A, 352, figs. 1, 2.
Doran, A. H. G. 1878 A, 411, pl. lx.
Eimer, G. H. J. 1901 A, 36.
Elliot, D. G. 1901 A, 212, fig. 49.
Fischer, J. B. 1829 A, 289 (Lemmus).
Giebel, C. G. 1883 A, pl. xxiii (Ondatra).
Hay, O. P. 1914 A, 26.
1920 B, 105 (Ondatra).
1923 A, 492 (Ondatra).
Hollister, H. 1911 A, 16, pls. i-vi (F. zibethicus, with 11 subspecies).
1911 C, 13 (Ondatra).
Holmes, F. S. 1859 A, 184 ("muskrat").
1860 A, iv, vii ("musk-rat").
Krumbach, T. 1904 A, 280.
Leidy, J. 1859 J, 18 ("muskrat").
1889 H, 5.
Lönnberg, E. 1910 A, 51.
Martin, H. T. 1892 A, 33, figs.
Matschie, P. 1896 A, 252 ("bisamratten").
Meckel, J. F. 1825 A (Mus).
Mercer, H. C. 1894 A, 98 ("musk-rat").
1896 A, 71, figs. 37, 38 (Fiber).
Miller, G. S. 1912 B, 230 (Ondatra).
1924 C, 425.
Osborn, H. F. 1910 B, 457, 459.
Osborn and Anthony 1922 A, 226.
Owen, R. 1866 B, 375, fig. 241.
Rehs, J. 1914 A, 93.
Rhoads, S. N. 1903 A, 245.
Scharff, R. F. 1911 A, 64.
Scudder, N. P. 1885 A, lxiv ("muskrat").
Seton, E. T. 1909 A, 538, text-figs. 155-160, map 31.
Trouessart, E. L. 1904 A, 461.
Waterhouse, G. R. 1839 D, 594, figs.
Recent; greater part of North America: Pleistocene; Pennsylvania, Maryland, South Carolina.

Ondatra sp. indet.

Cooke, C. W. 1926 A, 445 ("muskrat"). Pleistocene; Florida.
Hay, O. P. 1923 A, 321. Late Wisconsin or Recent; Pennsylvania.

POAMYS Matthew. Type *P. rivicola* Matthew.

Matthew, W. D. 1924 C, 74, 86.

Poamys rivicola Matthew.

Matthew, W. D. 1924 C, 66, 86, fig. 10.
Upper Miocene (Lower Snake Creek); Nebraska.

Superfamily DIPODOIDÆ Miller and Gidley.

Miller and Gidley 1918 A, 439.
Matthew and Granger 1923 B, 3.
Wagner, A. 1841 A, 119 (Macropoda).
Weber and Abel 1928 A, 268 (Haplodontidea); 269, 278 (Dipodoidea).
Weber and Burlet 1927 A, xiv (Haplodontoidea).
Winge, H. 1924 A, 7, 14, 22 (Haplodontidæ, Dipodidæ).

PARAMYIDÆ Miller and Gidley.

Miller and Gidley 1918 A, 439.
Hay, O. P. 1902 A, 723 (Ischromyidæ, part).
Haeckel, E. 1895 A, 502 (Paramyida).
Matthew, W. D. 1921 D, 214.

PARAMYS Leidy.

Based on three species, *P. delicatus, delicatior, delicatissimus*.
Hay, O. P. 1902 A, 723.
Ameghino, F. 1903 A, 139.
1906 A, 408.
Arldt, T. 1907 D, 78.
Chardin, P. T. 1920 A, 1161.
1922 A, 54, 77, 80, 93, pl. iv, text-fig. 37.
1924 A, 13.
1927 A, 22.
Cope, E. D. 1880 U, 154 (Plesiarctomys).
Depéret, C. 1908 A, 112 (Plesiarctomys).
Dollo and Chardin 1924 A, 13, 15.
Giebel, C. C. 1855 A, 46 (Plesiarctomys).
Granger, W. 1909 A, 22.
Gregory, W. K. 1910 A, 326.
1920 A, 173, 242, fig. 125.
1921 A, 69, 77, pl. xxvii.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 364 (Plesiarctomys).
Kraglievich, L. 1926 C, 47.
Loomis, F. B. 1905 C, 296.
1907 A, 123.
1922 A, 62.
Matthew, W. D. 1907 A, 212 (Sciuravus).
1909 C, 101 (Paramys, Pseudotomus, Sciuravus).
1909 D, 308 (Paramys, Sciuravus).
1910 B, 43, 45, 71 (Paramys); 45, 55 (Pseudotomus, type *P. hians;* 50 (Leptomus, type *P. grangeri*).
1914 H, 351.
1915 A, 231 (Paramys, Sciuravus).
1915 K, 421, 466.
1917 A, 574.
1918 H, 614.
1920 A, 169.
1921 H, 510.
1924 E, 748.
1928 B, 964, 976.
Matthew and Granger 1923 B, 4.
Miller and Gidley 1918 A, 440.
Osborn, H. F. 1909 D, 132 (Paramys); 57 (Pseudotomus).
1910 B, 128, 134, 165, 168, 534 (Paramys); 118, 149, 534 (Plesiarctomys).
1912 G, 236, fig. 3.
Palmer, T. S. 1904 A, 514, 850 (Paramys); 547, 866 (Plesiarctomys).
Schlosser, M. 1902 I, 707, 738.
Scott, W. B. 1913 A, 270, 280.
Taylor, W. P. 1915 A, 167.
1916 A, 457.
Trouessart, E. L. 1904 A, 476.
Troxell, E. L. 1923 D, 384, 393, 396.
Weber, M. 1904 A, 509, 511 (Paramys); 511 (Plesiarctomys).
Weber and Abel 1928 A, xxi, 293, 295 (Paramys, Plesiarctomys).
Winge, H. 1924 A, 15, 81.
Wortman, J. L. 1903 A, xv, 431; xvi, 367, fig.
1921 A, 185.
Zittel and Schlosser 1911 A, 425.
1923 A, 509, 518, 665-668.

Paramys atwateri Loomis.

Loomis, F. B. 1907 A, 127, fig. 3.
1907 B, 357.
Matthew, W. D. 1909 C, 94.
1910 B, 50, 51, 58.
1918 H, 616.
Lower Eocene (Wasatch); Wyoming.

Paramys buccatus (Cope).

Hay, O. P. 1902 A, 723.
Loomis, F. B. 1907 A, 130 (To Sciuravus?).
Matthew, W. D. 1909 C, 94 (Sciuravus?).
1910 B, 50, 51, 58.
1918 H, 617.
Merrill, G. P. 1907 A, 54 (Plesiarctomys).
Reeside, J. B. 1924 A, 46 (Sciuravus. This genus?).
Trouessart, E. L. 1904 A, 477.
Lower Eocene (Wasatch); New Mexico: (Wind River); Wyoming.

Paramys copei Loomis.

Loomis, F. B. 1907 A, 125, 128.
1907 A, 124, fig. 1 (P. primævus); 128, fig. 4 (P. bicuspis).
1907 B, 357 (P. bicuspis, P. primævus).
Matthew, W. D. 1909 C, 94 (P. copei, P. bicuspis, P. primævus).
1910 B, 50, 51, 58 (P. copei, P. primævus, P. bicuspis).
1918 H, 615.
1920 A, 169.
Lower Eocene (Wasatch, Wind River); Wyoming: (Wasatch); New Mexico.

Paramys delicatior Leidy.

Hay, O. P. 1902 A, 723.
Matthew, W. D. 1909 C, 97.
1910 B, 50, 53, 58.
Merrill, G. P. 1907 A, 55 (Plesiarctomys).
Scott, W. B. 1913 A, 271, fig. 140.
Trouessart, E. L. 1904 A, 476.
Middle Eocene (Bridger); Wyoming.

Paramys delicatus Leidy.

Hay, O. P. 1902 A, 723.
Abel, O. 1914 A, 119, fig. 85.
Gidley, J. W. 1919 C, 61, 62.
Matthew, W. D. 1909 C, 97.
1910 B, 45, 50, 52, 56, 58, figs. 1-3, 6.
1920 A, 169.
Trouessart, E. L. 1904 A, 476.
Weber and Abel 1928 A, 296, fig. 185.
Zittel and Schlosser 1923 A, 509, fig. 631.
Middle Eocene (Bridger, Washakie?); Wyoming.

Paramys excavatus Loomis.

Loomis, F. B. 1907 A, 129, fig. 6.
Matthew, W. D. 1909 C, 94.
1910 B, 50, 52, 58.
1918 H, 616.
Lower Eocene (Wind River); Wyoming.

Paramys grangeri Matthew.

Matthew, W. D. 1910 B, 50, 57, 58, figs. 10, 11, 12 [P. (Leptomus)].
Eocene (Upper Uinta); Utah.

Paramys hians (Cope).

Cope, E. D. 1872 OO, 2 (Pseudotomus).
Hay, O. P. 1902 A, 723.
Matthew, W. D. 1909 C, 97 (Pseudotomus).
1910 B, 50, 55, 58.
Trouessart, E. L. 1904 A, 477.
Middle Eocene (Bridger); Wyoming.

Paramys leptodus Cope.

Hay, O. P. 1902 A, 724.
Matthew, W. D. 1909 C, 97.
1910 B, 50, 56, 58.
Trouessart, E. L. 1904 A, 477.
Middle Eocene (Washakie); Wyoming.

Paramys major Loomis.

Loomis, F. B. 1907 A, 128, fig. 5.
Matthew, W. D. 1909 C, 94.
1910 B, 50, 51, 58.
1918 H, 615.
Lower Eocene (Wind River); Wyoming.

Paramys major quadratus Loomis.

Loomis, F. B. 1907 A, 126, fig. 2 (P. quadratus).
1907 B, 357 (P. quadratus).
Matthew, W. D. 1909 C, 94 (P. quadratus).
1910 B, 50, 51, 58 (P. quadratus).
1918 H, 614 (P. m. quadratus).
Lower Eocene (Wasatch); Wyoming.

Paramys medius Peterson.

Peterson, O. A. 1919 A, 61, pl. xxxiv, figs. 15-22.
Upper Eocene (Uinta); Utah.

Paramys murinus Matthew.

Matthew, W. D. 1918 H, 617, fig. 37.
Lower Eocene (Wasatch); Wyoming.

Paramys sciuroides (Scott and Osborn).

Hay, O. P. 1902 A, 724.
Ameghino, F. 1903 A, 139, fig. 61 (Plesiarctomys).
Matthew, W. D. 1909 C, 99.
1910 B, 50, 56, 58.
Trouessart, E. L. 1904 A, 477.
Upper Eocene (Uinta); Utah.

Peramys superbus Osborn, Scott and Speir.

Hay, O. P. 1902 A, 724.
Matthew, W. D. 1909 C, 97 (Pseudotomus).
1910 B, 50.
Trouessart, E. L. 1904 A, 477.
Middle Eocene (Bridger); Wyoming.

Paramys uintensis Osborn.

Hay, O. P. 1902 A, 724.
Matthew, W. D. 1909 C, 99.
1910 B, 50, 56.
Trouessart, E. L. 1904 A, 477.
Upper Eocene (Uinta); Utah.

Paramys sp. indet.

Hay, O. P. 1902 A, 724.
Matthew, W. D. 1909 C, 97, 99 (Paramys, Pseudotomus). Middle Eocene (Bridger); Wyoming, Colorado.
Sinclair and Granger 1911 A, 108. Middle Eocene (Bridger); Wyoming, Colorado.

REITHROPARAMYS Matthew. Type *Paramys delicatissimus* Leidy.

Matthew, W. D. 1920 A, 168.

Reithroparamys delicatissimus (Leidy).

Hay, O. P. 1902 A, 723 (Paramys).
Cope, E. D. 1891 N, 71, figs. 42, 43 (Plesiarctomys).
Matthew, W. D. 1909 C, 97 (Paramys).
1910 B, 50, 54, 58 (Paramys).
1920 A, 168.
Merrill, G. P. 1907 A, 55 (Plesiarctomys).
Trouessart, E. L. 1904 A, 476 (Paramys).
Middle Eocene (Bridger); Wyoming.

ISCHYROTOMUS Matthew. Type *Paramys petersoni* Matthew.

Matthew, W. D. 1910 B, 50.
Gidley, J. W. 1919 C, 63.
Peterson, O. A. 1919 A, 63.

Ischyrotomus compressidens (Peterson).

Peterson, O. A. 1919 A, 60, fig. 3 (Paramys).
Gidley, J. W. 1919 C, 63.
Upper Eocene (Uinta); Utah.

Ischyrotomus gidleyi Peterson.

Peterson, O. A. 1919 A, 63, fig. 4.
Upper Eocene (Uinta); Utah.

Ischyrotomus petersoni (Matthew).

Matthew, W. D. 1910 B, 50, 56, figs. 8-11 [Paramys (Ischyrotomus)].
Peterson, O. A. 1919 A, 61.
Upper Eocene (Uinta); Utah.

Ischyrotomus robustus (Marsh).

Hay, O. P. 1902 A, 724 (Paramys).
Gidley, J. W. 1919 C, 61-63 (Paramys).
Matthew, W. D. 1909 C, 97 (Pseudotomus).
1910 B, 50, 54, 58, figs. 4, 5, 7.
Peterson, O. A. 1919 A, 62, 63 (Paramys).
Trouessart, E. L. 1904 A, 477 (Paramys).
Middle Eocene (Bridger); Wyoming.

MYSOPS Leidy. Type *M. minimus* Leidy.

Hay, O. P. 1902 A, 725.
Matthew, W. D. 1907 A, 212.
1910 B, 60, 71.
1918 H, 614, 618.
1928 B, 977.
Miller and Gidley 1918 A, 440.
Palmer, T. S. 1904 A, 444, 850.
Troxell, E. L. 1923 D, 384, 385, 391.
Wallace, A. R. 1876 A, I, 140.
Wortman, J. L. 1903 A, XVI, 367.

Mysops fraternus Leidy.

Hay, O. P. 1902 A, 725.
Trouessart, E. L. 1904 A, 478.
Troxell, E. L. 1923 D, 384 (Syn.? of Tillomys parvus).
Middle Eocene (Bridger); Wyoming.

Mysops kalicola Matthew.

Matthew, W. D. 1918 H, 618, fig. 38.
Lower Eocene (Wind River); Wyoming.

Mysops minimus Leidy.

Hay, O. P. 1902 A, 725.
Matthew, W. D. 1909 C, 97 (Sciuravus).
1909 D, 300.
1918 H, 619.
Trouessart, E. L. 1904 A, 478.
Troxell, E. L. 1923 D, 384, 387.
Middle Eocene (Bridger); Wyoming.

PROSCIURUS Matthew. Type *P. vetustus* Matthew.

Matthew, W. D. 1903 B, 213 (New subgenus).
Gidley, J. W. 1919 C, 65.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 110.
1910 B, 63, 71.
Matthew and Granger 1924 A, 6.
Miller and Gidley 1918 A, 440.
Osborn, H. F. 1910 B, 221, 534.
Peterson, O. A. 1919 A, 64, fig. 6.
Troxell, E. L. 1923 D, 396.
Zittel and Schlosser 1911 A, 426.
1923 A, 510, 672.

Prosciurus ballovianus (Cope).

Hay, O. P. 1902 A, 719 (Sciurus).
Matthew, W. D. 1903 B, 214 (Sciurus).
1909 C, 107 (Prosciurus).
1910 B, 63 (Sciurus).
Merriam and Sinclair 1907 A, 185 (Sciurus).
Trouessart, E. L. 1904 A, 318 [Sciurus (Parasciurus)].
Upper Oligocene (John Day); Oregon.

Prosciurus jeffersoni Douglass.

Douglass, E. 1901 B, 242, 252 (Sciurus).
1903 A, 149 (Sciurus).
Matthew, W. B. 1909 C, 103 (Prosciurus).
Trouessart, E. L. 1904 A, 318 [Sciurus Parasciurus)].
Oligocene (Lower); Montana.

Prosciurus relictus (Cope).

Hay, O. P. 1902 A, 719 (Sciurus).
Matthew, W. D. 1903 B, 214 (Sciurus).
1909 C, 105.
1910 B, 63.
Trouessart, E. L. 1904 A, 318 [Sciurus (Parasciurus)].
Middle Oligocene (Cedar Creek); Colorado.

Prosciurus? robustus Peterson.

Peterson, O. A. 1919 A, 65.
Upper Eocene (Uinta); Utah.

Prosciurus vetustus Matthew.

Matthew, W. D. 1903 B, 213, fig. 9 [Sciurus (Prosciurus)].
1909 C, 103.
1910 B, 63.
Oligocene (Lower); Montana.

Prosciurus vortmani (Cope).

Hay, O. P. 1902 A, 719 (Sciurus).
Matthew, W. D. 1903 B, 214 (Sciurus).
1909 C, 107.
1910 B, 63.
Merriam and Sinclair 1907 A, 185.
Trouessart, E. L. 1904 A, 318 [Sciurus (Parasciurus) vortmanni].
Upper Oligocene (John Day); Oregon.

TILLOMYS Marsh. Type *T. senex* Marsh.

Hay, O. P. 1902 A, 724 (Tillomys, Taxymys).
Haug, E. 1911 A, 1528.
Matthew, W. D. 1907 A, 212 (Tillomys, Taxymys).
1909 C, 101 (Tillomys, Taxymys).
1910 B, 60 (Tillomys, Taxymys).
Matthew and Granger 1925 B, 5.
Palmer, T. S. 1904 A, 680, 850 (Tillomys); 666, 850 (Taxymys).
Troxell, E. L. 1923 D, 384, 387.

Tillomys lucaris (Marsh).

Hay, O. P. 1902 A, 724 (Taxymys).
Matthew, W. D. 1909 C, 97 (Taxymys).
Trouessart, E. L. 1904 A, 477 (Taxymys).
Troxell, E. L. 1923 D, 384, 388, figs. 9-12, 18.
Middle Eocene (Bridger); Wyoming.

Tillomys parvidens (Marsh).

Hay, O. P. 1902 A, 724 (Paramys).
Matthew, W. D. 1908 C, 97 (Sciuravus).
Trouessart, E. L. 1904 A, 477 (Paramys).
Troxell, E. L. 1923 D, 384 ("S." parvidens); to Tillomys.
Middle Eocene (Bridger); Wyoming.

Tillomys parvus Marsh.

Hay, O. P. 1902 A, 724.
Matthew, W. D. 1909 C, 97.
Trouessart, E. L. 1904 A, 477.

Troxell, E. L. 1923 D, 390, figs. 13, 16, 17.
Middle Eocene (Bridger); Wyoming.

Tillomys parvus plicatus Troxell.

Troxell, E. L. 1923 D, 384, figs. 14, 15.
Middle Eocene (Bridger); Wyoming.

Tillomys senex Marsh.

Hay, O. P. 1902 A, 724.
Matthew, W. D. 1909 C, 97.
Trouessart, E. L. 1904 A, 477.
Troxell, E. L. 1923 D, 384, 388, figs. 7, 8.
Middle Eocene (Bridger); Wyoming.

ALLOMYIDÆ Marsh.

Marsh, O. C. 1877 D, 253.
Hay, O. P. 1902 A, 718 (Pteromyinæ).
Matthew, W. D. 1924 C, 84.
Miller and Gidley 1918 A, 440.
Palmer, T. S. 1904 A, 864.
Winge, H. 1924 A, 7, 16 (Allomyini).

ALLOMYS Marsh. Type *A. nitens* Marsh.

Hay, O. P. 1902 A, 718.
Matthew, W. D. 1904 C, 263, 264, fig. 13 (Meniscomys).
1909 C, 107 (Allomys); 110 (Meniscomys).
1910 B, 71.
1924 C, 81.
Miller and Gidley 1918 A, 440.
Osborn, H. F. 1909 D, 66.
Palmer, T. S. 1904 A, 89, 864.
Weber, M. 1904 A, 512.
Weber and Abel 1928 A, 298.
Winge, H. 1924 A, 14.
Merriam and Sinclair 1907 A, 185, 188, 189, 190.
Taylor, W. P. 1918 A, 451, fig. G.
Oligocene (Upper); Oregon.

Allomys cavatus (Cope).

Hay, O. P. 1902 A, 718.
Matthew, W. D. 1909 C, 107.

Allomys multiplicatus (Cope).

Hay, O. P. 1902 A, 719.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185 (A. nitens multiplicatus).
Oligocene (Upper); Oregon.

Allomys nitens Marsh.

Hay, O. P. 1902 A, 719.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 1, 188, 189.
Oligocene (Upper); Oregon.

HAPLOMYS Miller and Gidley. Type *Meniscomys liolophus* Cope.

Miller and Gidley 1918 A, 440.

Haplomys liolophus (Cope).

Hay, O. P. 1902 A, 719 (Allomys).
Matthew, W. D. 1909 C, 107 (Allomys).
Merriam and Sinclair 1907 A, 185, 188, 190 (Allomys).
Miller and Gidley 1918 A, 440.
Taylor, W. P. 1918 A, 451, fig. F. (Allomys).
Upper Oligocene (John Day); Oregon.

MENISCOMYS Cope. Type *M. hippodus* Cope.

Hay, O. P. 1902 A, 718 (Allomys, in part).
Furlong, E. L. 1910 A, 401.
Haug, E. 1911 A, 1705.
Matthew, W. D. 1910 B, 69.
1924 C, 84.
Merriam, J. C. 1916 A, 179.
Miller, G. S. 1927 A, 15.
Miller and Gidley 1918 A, 440.
Osborn, H. F. 1909 D, 68, 75.
1912 G, 246.
Palmer, T. S. 1904 A, 409, 866.
Schlosser, M. 1924 A, 30.
Seeley, H. G. 1886 A, 515.
Weber and Abel 1928 A, 297.
Winge, H. 1924 A, 14, 101 (Syn. of Allomys).
Zittel and Schlosser 1911 A, 425.
1923 A, 509, 672.

Meniscomys hippodus Cope.

Hay, O. P. 1902 A, 718 (Allomys).
Cossmann, M. 1900 A, 54 (Protogaulus).
Furlong, E. L. 1910 A, 401 (Meniscomys).
Matthew, W. D. 1901 B, 379 (Meniscomys).
1904 C, 263 (Meniscomys).
1909 C, 107 (Allomys).
Merriam and Sinclair 1907 A, 185, 188, 189 (Allomys).
Seeley, H. G. 1886 A, 515 (Meniscomys).
Sinclair, W. J. 1903 C, 143 (Allomys).
Trouessart, E. L. 1904 A, 296 (Protogaulus).
Oligocene (Upper); Oregon.

Meniscomys sp. indet.

Cook, H. J. 1912 D, 42. Miocene (Upper Harrison); Nebraska.
Matthew, W. D. 1904 C, 263. Lower Miocene (Rosebud); South Dakota.
1907 A, 172. Lower Miocene (Rosebud); South Dakota.
1909 C, 112. Miocene (Lower); Nebraska, South Dakota.

APLODONTIIDÆ Thomas.

Arldt, T. 1907 D, 247, 321 (Haplodontidæ).
Beddard, F. E. 1902 A, 469 (Haplodontiidæ).
Chandler, A. C. 1914 B, 134.
Coues, E. 1883 A, 121 (Haplodontidæ).
Elliot, D. G. 1901 A, 111 (Haplodontidæ).
Flower and Lydekker 1891 A, 457 (Haplodontidæ).
Furlong, E. L. 1910 A, 403.
Gill, T. 1872 B, 22 (Haploodontoidea).
Grant, M. 1904 B, 205 (Haplodontidæ).

Höfer, H. 1911 A, 445 (Haplodontoidea).
Hogben, L. T. 1919 A, 72 (Haplodontidæ).
Lilljeborg, W. 1866 A, 41 (Haploodontidæ).
Lobley, J. L. 1908 A, 200 (Haplodontidæ).
Matthew, W. D. 1904 C, 263, 264, fig. 13 (Haplodontiidæ).
1909 C, 107, 110, 119.
1910 B, 65, 69, 71 (Aplodontiidæ); 229, 248, 534 (Haplodontiidæ); 69 (Aplodontoidea).
Miller, G. S. 1912 B, 291.
Miller and Gidley 1918 A, 440.
Osborn, H. F. 1909 D, 64, 66, 68 (Haplodontidæ).
Scott, W. B. 1913 A, 249.
Taylor, W. P. 1917 A, 272.
1918 A, 450.
Trouessart, E. L. 1904 A, 348 (Aplodontidæ).
Weber, M. 1904 A, 490, 496 (Haplodontoidea).
Weber and Abel 1928 A, 267, 272 (Haplodontidæ).
Winge, H. 1888 A, 115 (Haplodontidæ).
1924 A, 7, 16 (Haplodontini).
Zittel, K. A. 1893 B, 521 (Haplodontidæ).
Zittel and Schlosser 1911 A, 425 (Aplodontoidea, Aplodontinæ).
1923 A, 509 (Aplodontoidea, Aplodontinæ).

LIODONTIA Miller and Gidley. Type *Aplodontia alexandriæ* Furlong.

Miller and Gidley 1918 A, 440.

Liodontia alexandræ (Furlong).

Furlong, E. L. 1910 A, 398, figs. 1-5 (Aplodontia).
Kellogg, L. 1910 A, 429 (Aplodontia).
Merriam, J. C. 1911 B, 205, 211, 213-215, 253, 254 (Aplodontia).
Merriam, J. C. 1916 A, 178 (Aplodontia).
1917 A, 429 (Aplodontia).
Miller and Gidley 1918 A, 440.
Taylor, W. P. 1917 A, 272 (Aplodontia).

Miocene (Virgin Valley); Nevada: Pliocene (Thousand Creek); Nevada.

APLODONTIA Richardson. Type *A. leporina* Richardson.

Richardson, J. 1829, Zool. Jour., IV, 334.
Allen, J. A. 1892 A.
Anthony, H. E. 1916 A, 53.
Beddard, F. C. 1902 A, 469 (Haplodon).
Camp, C. L. 1918 A, 517, 6 figs.
Cockerell, T. D. A. 1916 C, 531, figs. 1-3.
Coues, E. 1883 A, 118 (Haplodon).
Elliot, D. G. 1901 A, 112 (Haplodontia).
Flower and Lydekker 1891 A, 457 (Haplodon).
Foote, J. S. 1916 A, 148, pl. xx (Haplodontia).
Furlong, E. L. 1907 A, 394.
Gidley, J. W. 1907 B, 629, pl. lx, fig. 2.
Grant, M. 1904 B, 195 (Haplodon).
Kampfen, P. N. 1905 A, 555.
Lilljeborg, W. 1866 A, 42 (Haploodon).
Matthew, W. D. 1910 B, 47, 65, 71.
1915 A, 229.
Matthew and Granger 1923 B, 1 (Haplodontia).
Merriam, C. H. 1886 A, 312.
1892 A, 61.
Merriam, J. C. 1911 B, 206, 215.
1916 A, 178.
Miller, G. S. 1912 B, 291.
1924 C, 429.
1927 A, 13.
Miller and Gidley 1918 A, 440.
Osborn, H. F. 1910 B, 357, 477, 534 (Haplodontia).
Palmer, T. S. 1904 A, 112, 842.
Peterson, O. A. 1905 A, 142.
Scharff, R. F. 1911 A, 228.
Schlosser, M. 1924 A, 30.
Scott, W. B. 1913 A, 153, 233, 676.
Seeley, H. G. 1886 A, 515 (Haplodontia).
Taylor, W. P. 1916 A, 470, 478.
1917 A, 272.
1918 A, 484.
Trouessart, E. L. 1904 A, 348.
Wagner, A. 1841 A, 123 (Haplodon).
Waterhouse, G. R. 1839 C, 174.
1842 A, 201, 203.
Weber, M. 1904 A, 496.
Weber and Abel 1928 A, 272.
Winge, H. 1888 A, 115 (Haplodon).
1924 A, 16, 104 (Haplodon).
Zittel and Schlosser 1911 A, 425 (Haplodon).
1923 A, 509.

Aplodontia rufa californica (Peters).

Peters, W. 1864, Mon. preuss. Akad. Wiss. Berlin, 177-180 (Haplodon leporinus californicus).
Coues, E. 1883 A, 121, figs. 63-65 (A. rufa).
Elliot, D. G. 1901 A, 112 (Haplodontia rufa californica).
Furlong, E. L. 1904 A, 54, 55 (A. rufa, A. major).
1906 A, 243, 245 (A. rufa, A. major?).
1910 A, 400 (A. rufa).
Hay, O. P. 1927 D, 214, 215 (A. californica fossilis).
Kellogg, L. 1912 A, 156, fig. 5 (A. major fossilis).
Merriam, C. H. 1886 A, 316, pls. xix, xx (A. major).
Merriam and Stock 1925 A, 10 (A. californica fossilis).
Miller, G. S. 1924 C, 431.
Miller, L. H. 1912 A, 70, 73 (A. rufa, A. major, n. subsp.).
Sinclair, W. J. 1903 A, 711 (A. major?).
1904 A, 17 (A. major, n. subsp.).
1905 B, 147 (A. major).
Stock, C. 1918 A, 468, 469 (A. californica).
Taylor, W. P. 1918 A, 473, pl. xxvi, fig. 5; pl. xxvii, figs. 8, 10; pl. xxix.

Recent; Sierra Nevada Mountains; California: Quaternary (caves); California.

Aplodontia sp. indet.

Hay, O. P. 1927 D, 63, 222, 223. Pleistocene; California.
Stock, C. 1925 A, 113 (This genus?). Pleistocene (Cave); California.

CYLINDRODONTIDÆ Miller and Gidley.

Miller and Gidley 1918 A, 440.

CYLINDRODON Douglass. Type *C. fontis* Douglass.

Douglass, E. 1901 B, 251.
1905 A, 211.
Matthew, W. D. 1909 C, 110.
1910 B, 64, 71.
1915 K, 420.
Miller and Gidley 1918 A, 440.
Osborn, H. F. 1910 B, 534.
Palmer, T. S. 1904 A, 208, 842.
Schlosser, M. 1911 A, 166.
Zittel and Schlosser 1911 A, 428.
1923 A, 512.

Cylindrodon fontis Douglass.

Douglass, E. 1901 B, 242, 251, pl. ix, figs. 9, 9*a*.
1903 A, 149.
Granger, W. 1910 B, 240.
Lambe, L. M. 1908 A, 11, 56, pl. viii, figs. 19, 20.
Matthew, W. D. 1903 B, 212, text-figs. 7, 8.
1909 C, 103.
1910 A, 33.
Trouessart, E. L. 1904 A, 295.
Oligocene (Lower); Montana: (White River); Wyoming?: (Cypress Hills); Saskatchewan.

MYLAGAULIDÆ Cope.

Hay, O. P. 1902 A, 721.
Arldt, T. 1912 A, 698.
Cossmann, M. 1900 A, 54.
Douglass, E. 1903 A, 186.
Gidley, J. W. 1907 B, 628.
Matthew, W. D. 1901 B, 377.
1902 D, 294.
1904 C, 264.
1905 D, 52.
1909 C, 114, 116, 119.
1910 B, 69, 71.
1924 C, 75, 81, 84.
Miller and Gidley 1918 A, 441.
Osborn, H. F. 1905 I, 107.
1909 D, 131.
1910 B, 624.
Palmer, T. S. 1904 A, 755, 842.
Scott, W. B. 1913 A, 222, 233.
Trouessart, E. L. 1904 A, 296.
Weber, M. 1904 A, 512.
Weber and Abel 1928 A, 297.
Winge, H. 1924 A, 7, 15, 16 (Mylagaulini).
Zittel and Schlosser 1911 A, 427 (Mylagaulinæ).
1923 A, 511 (Mylagaulinæ).

MESOGAULUS Riggs. Type *M. ballensis* Riggs.

Hay, O. P. 1902 A, 721.
Cossmann, M. 1900 A, 54.
Haug, E. 1911 A, 1705.
Matthew, W. D. 1901 B, 374.
1909 C, 119.
1910 B, 71.
1924 C, 76.
Osborn, H. F. 1910 B, 535.
Palmer, T. S. 1904 A, 414, 843.
Winge, H. 1924 A, 15.

Mesogaulus ballensis Riggs.

Hay, O. P. 1902 A, 721.
Matthew, W. D. 1901 B, 377, 378 (= Mylogaulus monodon).
1902 D, 298 (Mylogaulus).
1909 C, 114.
1924 C, 81.
Matthew and Cook 1909 A, 380.
Miocene (Deep River); Montana.

MYLAGAULUS Cope. Type *M. sesquipedalis* Cope.

Hay, O. P. 1902 A, 721.
Cope, E. D. 1880 U, 152.
Cossmann, M. 1900 A, 54.
Douglass, E. 1903 A, 186.
1907 B, 98.
1909 A, 477.
Furlong, E. L. 1910 A, 403 (Mylagaulodon).
Haug, E. 1911 A, 1706.
Matthew, W. D. 1901 B, 374.
1902 D, 291, fig. 2.
1904 C, 264, fig. 13 (Mylagaulus, Mylagaulodon).
1907 A, 175, 210.
1909 C, 119 (Mylagaulus); 110 (Mylagaulodon).
1910 B, 71 (Mylagaulus); 69, 71 (Mylagaulodon).
1912 B, 186.
1918 A, 199.
1924 C, 74, 75, 81 (Mylagaulodon a syn.)
Merriam, J. C. 1911 B, 207, 216.
Miller and Gidley 1918 A, 441.
Osborn, H. F. 1907 G, 147, figs. 107, 108.
1909 D, 68, 88 (Mylagaulodon); 78, 81 (Mylagaulus).
1910 B, 297, 352, 535 (Mylagaulus); 534 (Mylagaulodon).
Palmer, T. S. 1904 A, 437, 843 (Mylagaulus, Mylaugaulodon).
Schlosser, M. 1902 J, 135.
Sinclair, W. J. 1903 C, 143 (Mylagaulus); 143 (Mylagaulodon; type *M. angulatus*).
Trouessart, E. L. 1904 A, 296.
Weber, M. 1904 A, 512.
Weber and Abel 1928 A, 297.
Winge, H. 1924 A, 15, 16.

Mylagaulus angulatus (Sinclair).

Sinclair, W. J. 1903 C, 143, fig. 1 (Mylagaulodon).
Matthew, W. D. 1909 C, 107 (Mylagaulodon).
Merriam and Sinclair 1903 A, 96 (Mylagaulodon).
1907 A, 185, 191, 192 (Mylagaulodon).
Upper Oligocene (John Day); Oregon.

Mylagaulus lævis Matthew.

Matthew, W. D. 1902 D, 298.
Douglass, E. 1903 A, 186.
Matthew, W. D. 1901 B, 377 (M. monodon).
1909 C, 114.
1924 C, 66, 75, 78, figs. 2-4.
Trouessart, E. L. 1904 A, 296.
Upper Miocene (Pawnee Creek); Colorado: (Lower Sheep Creek); Nebraska.

Mylagaulus monodon Cope.

Hay, O. P. 1902 A, 721.
Barbour and Cook 1917 B, 180.
Cook, H. J. 1912 D, 44 (This species?).
Cope and Matthew 1915 A, pl. cxix *c*, figs. 10, 11.
Gidley, J. W. 1904 A, 245.
Kellogg, L. 1910 A, 429, figs. 9-10*b*.
Matthew, W. D. 1901 B, 358, 377, text-figs. 3-6.
1902 D, 297.
1904 C, 265.
1909 C, 116.
1918 A, 186 (This species?).
1924 C, 66, 75.
Matthew and Cook 1909 A, 379, fig. 8.
Merriam, J. C. 1911 B, 205, 211, 214, 215, 253, 254.
1917 A, 429, 438 (M. monodon); 436 (This species?).
Sinclair, W. J. 1915 A, 76 (This species?).
Pleistocene (Valentine); Nebraska: Pliocene (Snake Creek); Nebraska: Miocene (Virgin Valley and Thousand Creek); Nevada: Upper Miocene (Arikaree, Republican River); South Dakota, Kansas.

Mylagaulus novellus Matthew.

Matthew, W. D. 1924 C, 66, 84.
Middle Miocene (Sheep Creek); Nebraska.

Mylagaulus paniensis Matthew.

Matthew, W. D. 1902 D, 299, fig. 4.
Douglass, E. 1903 A, 153, 172, 191, figs. 14, 29 (This species?).
Matthew, W. D. 1909 C, 114, 116.
1924 C, 66, 81.
Matthew and Cook 1909 A, 380.
Trouessart, E. L. 1904 A, 296.
Upper Miocene (Pawnee Creek); Colorado, Montana: (Lower Snake Creek); Nebraska, Montana?.

Mylagaulus pristinus Douglass.

Douglass, E. 1903 A, 154, 186, 187, fig. 26 (This genus?).
Kellogg, L. 1910 A, 429, figs. 11-12*b*.
Matthew, W. D. 1909 C, 116.
Merriam, J. C. 1911 B, 205, 214, 253, 254.
Trouessart, E. L. 1904 A, 296.
Miocene (Virgin Valley); Nevada, Montana.

Mylagaulus proximus Douglass.

Douglass, E. 1903 A, 154, 189, fig. 27.
Matthew, W. D. 1909 C, 116.
Trouessart, E. L. 1904 A, 296.
Miocene (Madison Valley); Montana.

Mylagaulus sesquipedalis Cope.

Hay, O. P. 1902 A, 721.
Cope and Matthew 1915 A, pl. cxix *c*, fig. 12.
Matthew, W. D. 1901 B, 377.
1902 D, 297.
1909 C, 116.
1924 C, 66, 75, 76.
Merriam, J. C. 1917 A, 438.
Trouessart, E. L. 1904 A, 296.
Lower Pliocene (Upper Snake Creek); Nebraska: (Republican River); Kansas.

Mylagaulus vetus Matthew.

Matthew, W. D. 1924 C, 66, 82, figs. 5-8.
Middle Miocene (Sheep Creek); Nebraska.

Mylagaulus sp. indet.

Douglass, E. 1903 A, 190, fig. 28. Miocene; Montana.
Matthew, W. D. 1923 A, 12. Lower Pliocene (Upper Snake Creek); Nebraska.
Merriam and Sinclair 1907 A, 196 (In supposed Mascall).

CERATOGAULUS Matthew. Type *C. rhinocerus* Matthew.

Matthew, W. D. 1902 D, 291, fig. 3.
Abel, O. 1908 D, (214).
1912 F, 576.
Gidley, J. W. 1907 B, 627.
Matthew, W. D. 1905 D, 52, fig. 25.
1909 C, 119.
1910 B, 71.
1924 C, 76.
Miller and Gidley 1918 A, 441.
Osborn, H. F. 1905 H, 222.
1905 I, 107.
1909 D, 78.
1910 B, 297, 535.
Palmer, T. S. 1904 A, 170, 842.
Weber, M. 1904 A, 512.
Weber and Abel 1928 A, 297.
Winge, H. 1924 A, 16, 17.

Ceratogaulus rhinocerus Matthew.

Matthew, W. D. 1902 D, 219, 299, fig. 1.
Abel, O. 1912 F, 575, fig. 446.
1913 B, 729, fig. 39.
1914 A, 120, fig. 86.
Douglass, E. 1903 A, 186.
Matthew, W. D. 1909 C, 114.
1924 C, 66, 76.
Trouessart, E. L. 1904 A, 296.
Weber, M. 1904 A, 512, fig. 384.
Weber and Abel 1928 A, 297, fig. 186.
Miocene (Pawnee Creek); Colorado: (Lower Snake Creek); Nebraska.

Ceratogaulus sp. indet.

Gidley, J. W. 1918 C, 180. Late Tertiary (Flaxville); Montana.
Hay, O. P. 1924 D, 169. Pliocene?; Montana.

Epigaulus Gidley. Type *E. hatcheri* Gidley.

Gidley, J. W. 1907 B, 628.
Abel, O. 1908 D (214).
1912 F, 576.
Matthew, W. D. 1909 C, 119.
1910 B, 71.
1924 C, 76.
Miller and Gidley 1918 A, 441.
Osborn, H. F. 1909 D, 81.
1910 B, 291, 352, 535, fig. 144.
Scott, W. B. 1913 A, 223.
Winge, H. 1924 A, 16.

Epigaulus hatcheri Gidley.

Gidley, J. W. 1907 B, 628, pls. lviii-lx, fig. 1; pls. lxi-lxv; text-fig. 1.
Abel, O. 1912 F, 578, fig. 448.
1914 A, 118, figs. 83, 84.
1920 A, 430, fig. 653.
1925 A, 19, fig. 16.
Gilmore, C. W. 1921 F, 66 ("Epigælus").
Matthew, W. D. 1909 C, 116.
1924 C, 75.
Merriam, J. C. 1917 A, 438.
Scott, W. B. 1913 A, 223, fig. 123.
Miocene (Republican River); Kansas.

Epigaulus sp. indet.

Barbour and Cook 1917 B, 180. Pliocene (Valentine); Nebraska.

SCIURAVIDÆ Miller and Gidley.

Miller and Gidley 1918 A, 442.

Sciuravus Marsh. Type *S. nitidus* Marsh.

Marsh, O. C. 1871 E, 122.
Hay, O. P. 1902 A, 723 (Paramys, in part); 725 (Colonomys).
Haug, E. 1911 A, 1528 (Sciuravus, Colonomys).
Loomis, F. B. 1907 A, 123.
Matthew, W. D. 1907 A, 212 (Colonomys).
1909 C, 101 (Colonomys).
1910 B, 59, 71 (Sciuravus); 80 (Colonomys).
1928 B, 977.
Osborn, H. F. 1909 D, 135.
1910 B, 128, 134, 534.
1912 G, 236, fig. 3.
Palmer, T. S. 1904 A, 625, 850 (Sciuravus); 196, 849 (Colonomys).
Schlosser, M. 1924 A, 27.
Scott, W. B. 1913 A, 280.
Taylor, W. P. 1915 A, 167.
Troxell, E. L. 1923 D, 384, figs. 3-5, 21, 22.
Wallace, A. R. 1876 A, I, 140.
Weber and Abel 1928 A, 296.
Winge, H. 1924 A, 15, 81.
Wortman, J. L. 1903 C, XVI, 368.
Zittel and Schlosser 1911 A, 425.
1923 A, 509, 667.

Sciuravus altidens Peterson.

Peterson, O. A. 1919 A, 64, fig. 5.
Upper Eocene (Uinta); Utah.

Sciuravus depressus Loomis.

Loomis, F. B. 1907 A, 130, fig. 7.
Matthew, W. D. 1909 C, 94.
Troxell, E. L. 1923 D, 384, 385 (This genus?).
Middle Eocene (Wind River); Wyoming.

Sciuravus nitidus Marsh.

Hay, O. P. 1902 A, 724 (Paramys); 725 (Colonymys celer).
Loomis, F. B. 1907 A, 125.
Matthew, W. D. 1909 C, 97 (Sciuravus; Colonomys celer).
1909 D, 300 (Colonymys celer).
1910 B, 59, figs. 13-15.
Peterson, O. A. 1919 A, 64.
Trouessart, E. L. 1904 A, 477 (Paramys; Colonymys celer).
Troxell, E. L. 1923 D, 384, figs. 1, 6.
Middle Eocene (Bridger); Wyoming.

Sciuravus undans Marsh.

Hay, O. P. 1902 A, 724 (Paramys).
Trouessart, E. L. 1904 A, 477 (Paramys).
Troxell, E. L. 1923 D, 384, 385, fig. 2.
Middle Eocene (Bridger); Wyoming.

Sciuravus sp. indet.

Matthew, W. D. 1909 C, 97. Eocene (Uinta); Wyoming, Utah.

ZAPODIDÆ Coues.

Coues, E. 1876 A, 253.
Chandler, A. C. 1914 B, 134.
Cockerell and Miller 1914 A, 372.
Coues, E. 1883 A, 94.
Elliot, D. G. 1901 A, 256.
Gill, T. N. 1885 B, 18.
Gregory, W. K. 1914 G, 380.
Hay, O. P. 1923 A, 312.
Lyon, M. W. 1901 A, 666.
Miller, G. S. 1912 B, 286.
Miller and Gidley 1918 A, 732.
Palmer, T. S. 1904 A, 776, 868.
Trouessart, E. L. 1904 A, 490 (Zapodinæ).

ZAPODINÆ Flower and Lydekker.

Flower and Lydekker 1891 A, 480.
Hay, O. P. 1902 A, 732.
Arldt, T. 1912 A, 742.
Lyon, M. W. 1901 A, 666.
Miller, G. S. 1924 C, 432.
Miller and Gidley 1918 A, 443.
Winge, H. 1888 A, 156 (Jaculinæ).
Zittel and Schlosser 1911 A, 429.
1923 A, 513.

ZAPUS Coues. Type *Dipus hudsonius* Zimmerman.

Hay, O. P. 1902 A, 732.
Allen, J. A. 1892 A.
1904 B, 136.
Beddard, F. E. 1902 A, 486.
Cockerell and Miller 1914 A, 372, figs. 111, 112.
Elliot, D. G. 1901 A, 257.
Kampfen, P. N. 1905 A, 565 (Meriones).
Leunis and Ludwig 1883 A, 218 (Jaculus).
Lilljeborg, W. 1866 A, 30 (Jaculus).
Lyon, M. W. 1901 A, 659, pls. xxv, fig. 1, xxvi, fig. 1, xxvii, fig. 1.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 280.
1924 C, 432.
Miller and Gidley 1918 A, 443.
Osborn, H. F. 1910 B, 470, 538.
Palmer, T. S. 1904 A, 713, 868.
Scharff, R. F. 1911 A, 29.
Seton, E. T. 1909 A, 587.
Taschenberg, O. 1899 A, 4707.
Trouessart, E. L. 1904 A, 490.
Wagner, A. 1841 A, 119 (Jaculus).
Weber, M. 1904 A, 501.
Weber and Abel 1928 A, 280.
Winge, H. 1888 A, 119 (Jaculus).
1924 A, 23 (Jaculus).

Zapus hudsonius (Zimmerman).

Hay, O. P. 1902 A, 732.
Baker, F. C. 1920 A, 208, 214, 397 (Z. hudsonicus).
Coues, E. 1883 A, 94, fig. 40.
Cuvier, G. 1825 A, v, 1, 34, pl. i (Dipus americanus).
Elliot, D. G. 1901 A, 257, fig. 59.
Fischer, J. B. 1829 A, 339 (Dipus).
Frech, F. 1906 A, 484.
Giebel, C. G. 1865 B, 272 (Jaculus labradorius).
1883 A, pl. xxiii (Jaculus labradorius).
Hay, O. P. 1923 A, 312.
Miller, G. S. 1912 B, 280.
1924 C, 432.
Pander and Alton 1824 A, 2.
Peterson, O. A. 1926 A, 278.
Rehs, J. 1914 A, 93.
Rhoads, S. N. 1903 A, 245.
Scharff, R. F. 1911 A, 27, 29.
Seton, E. T. 1909 A, 587, text-fig. 172, map 35.
Trouessart, E. L. 1904 A, 490.
Waterhouse, G. R. 1839 D, 188 (Meriones canadensis).

Recent; greater part of North America: Pleistocene (Early); Pennsylvania.

NAPÆOZAPUS Preble. Type *Zapus insignis* Miller.

Preble, E. A. 1899, N. A. Fauna, No. 15, 33.
Elliot, D. G. 1901 A, 263, fig. 60 (Subgenus of Zapus).
Miller, G. S. 1912 B, 283.
1924 C, 432.
Miller and Gidley 1918 A, 443.
Palmer, T. S. 1904 A, 448, 868.
Trouessart, E. L. 1904 A, 491.
Winge, H. 1924 A, 23 (Jaculus).

Napæozapus sp. indet.

Gidley, J. W. 1913 B, 96. Pleistocene (Middle); Maryland.
Hay, O. P. 1923 A, 350. Pleistocene (Middle); Maryland.

DIPODIDÆ Waterhouse.

Hay, O. P. 1902 A, 732.
Beddard, F. E. 1902 A, 484.
Carus, V. 1875 A, 100 (Dipodida).
Dobson, G. E. 1883 B, 640.
Doran, A. H. G. 1878 A, 414.
Giebel, C. G. 1883 A.
Hogben, L. T. 1919 A, 73.
Krumbach, T. 1904 A, 289 ("dipodiden").
Leche, W. 1887 A.
Lilljeborg, W. 1866 A, 28.
Lyon, M. W. 1901 A, 661.
Matthew, W. D. 1909 C, 107.
1910 B, 72.
Matthew and Granger 1923 B, 1.
Miller and Gidley 1918 A, 443.
Rehs, J. 1914 A, 93.
Schapiro, B. 1913 A, 219 ("dipodiden").
Schlosser, M. 1899 D, 166 ("dipodiden").
1924 A, 34.
Seton, E. T. 1909 A, 587.
Tornier, G. 1894 B, 104 ("dipodiden").
Weber and Abel 1928 A, 279.
Winge, H. 1924 A, 27 (Dipodini).
Zittel and Schlosser 1911 A, 429 (Dipodoidea).
1923 A, 513 (Dipodoidea).

PROTOPTYCHINÆ.

Miller and Gidley 1918 A, 443.
Zittel and Schlosser 1911 A, 427.
1923 A, 511.

PROTOPTYCHUS Scott. Type *P. hatcheri* Scott.

Hay, O. P. 1902 A, 730.
Matthew, W. D. 1907 A, 211.
1909 C, 101.
1910 B, 68, 72.
1928 B, 977.
Miller and Gidley 1918 A, 443.
Osborn, H. F. 1909 D, 57.
1910 B, 168, 536, 538.
Palmer, T. S. 1904 A, 584, 849.
Schlosser, M. 1899 D, 166.
1902 I, 707.
1911 A, 166.
Weber, M. 1904 A, 511.
Weber and Abel 1928 A, 277.
Zittel and Schlosser 1911 A, 427.
1923 A, 518, 669.

Protoptychus hatcheri Scott.

Hay, O. P. 1902 A, 730.
Matthew, W. D. 1909 C, 99.
Schlosser, M. 1899 D, 166.
Trouessart, E. L. 1904 A, 475,
Upper Eocene (Uinta); Utah.

PACICULUS Cope. Type *P. insolitus* Cope.

Hay, O. P. 1902 A, 727.
Ameghino, F. 1912 B, 172.
Matthew, W. D. 1909 C, 110.
1910 B, 72.
Palmer, T. S. 1904 A, 496, 853.
Schlosser, M. 1899 D, 166.
Seeley, H. G. 1886 A, 515.
Zittel and Schlosser 1911 A, 430.
1923 A, 514, 672.

Paciculus insolitus Cope.

Hay, O. P. 1902 A, 727.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185.
Upper Oligocene (John Day); Oregon.

Paciculus lockingtonianus Cope.

Hay, O. P. 1902 A, 727.
Matthew, W. D. 1909 C, 107.
Merriam and Sinclair 1907 A, 185.
Upper Oligocene (John Day); Oregon.

Suborder HYSTRICIFORMES, new name.

Unless otherwise indicated the authors, as cited, use for this suborder the name Hystricomorpha.

Hay, O. P. 1902 A, 732.
Ameghino, F. 1889 A, 1016.
1893 B, 444.
1906 A, 240, 409.
1912 B, 172.
Anderson, R. J. 1909 A, 744 (Hystricoidea).
Andrews, C. W. 1916 D, 548 ("hystricomorphs").
Arldt, T. 1907 A, 238 ("hystricomorphen").
1907 C, 676.
1907 D, 660.
Beddard, F. E. 1902 A, 487.
Branca, W. 1907 A, 10.
Cope, E. D. 1891 N, 70, 90.
Coues, E. 1883 A, 81.
Doran, A. H. G. 1878 A, 418.
Gregory, W. K. 1910 A, 326, 330.
1914 G, 380.
Kampfen, P. N. 1905 A, 554.
Lesbre, F. X. 1907 A, 1 (Hystrix).
Matthew, W. D. 1910 B, 64, 69, 72.
1912 B, 186.
1914 H, 380 ("hystricomorphs").
1915 A, 230, fig. 15.
Osborn, H. F. 1909 D, 88, 89.
1910 B, 538.
Pocock, R. I. 1916 G, 548.
Rehs, J. 1914 A, 69, 92 (Hystricomorphi).
Reynolds, S. H. 1897 A, 477, 488.
Schapiro, B. 1913 A, 277.
Scharff, R. F. 1907 A, 229.
1911 A, 371, 399, 402.
Schlosser, M. 1902 I, 708, 738.
Scott, W. B. 1905 B, 495.
1913 A, 245, 262.
1916 A, 116.
1928 B, 254.
Seeley, H. G. 1886 A, 514.
Sinclair, W. J. 1905 D, 384, 495.
Stromer, E. 1926 A, 136.
Thacker, A. G. 1922 A, 600, 603.
Trouessart, E. L. 1904 A, 496.
Wagner, A. 1841 A, 127 (Hystricina).
Waterhouse, G. R. 1839 D, 92 (Hystricina).
1842 A, 345 (Hystricina).
Weber, M. 1904 A, 489.
Weber and Abel 1928 A, 267, 288.
Winge, H. 1888 A, 156.
Zittel and Schlosser 1911 A, 424.
1923 A, 508.

Superfamily HYSTRICOIDÆ Miller and Gidley.

Miller and Gidley 1918 A, 444.
Gill, T. 1872 B, 22 (Hystricoidea).
Kraglievich, L. 1926 C, 47 (Hystricoidea).
Miller, G. S. 1924 C, 436.
Weber, M. 1904 A, 491, 505 (Hystricoidea).
Weber and Abel 1928 A, 248, 269, 288, 298 (Hystricoidea).
Weber and Burlet 1927 A, xiv (Hystricoidæ).
Winge, H. 1924 A, 8, 57, 75 (Hystricidæ).
Wortman, J. L. 1920 A, 33.
Zittel and Schlosser 1911 A, 431 (Hystricoidea).
1923 A, 515 (Hystricoidea).

ERETHIZONTIDÆ Thomas.

Hay, O. P. 1902 A, 732 (Erethizontidæ, Erethizontinæ).
Ameghino, F. 1903 A, 119 (Cœnidæ).
1906 A, 241, 421 (Erethizontidæ, Cœndidæ).
Chandler, A. C. 1914 B, 134.
Elliot, D. G. 1901 A, 264.
Grant, M. 1904 B, 205.
Hay, O. P. 1923 A, 312.
Höfer, H. 1911 A, 463.
Hogben, L. T. 1919 A, 73.
Matthew, W. D. 1910 B, 72.
1913 B, 291.
1915 A, 230, fig. 4.
1915 K, fig. 17 ("porcupines").
Miller, G. S. 1912 B, 289.
1920 B, 190.
Miller and Gidley 1918 A, 441, 445.
Rehs, J. 1914 A, 92.
Scharff, R. F. 1911 A, 71 (Cœndidæ).
Schlosser, M. 1902 I, 708.

Schlosser, M. 1911 A, 151, 162 ("erethizontiden").
Scott, W. B. 1905 B, 493 (Erethizontidæ, Erithizontinæ).
Seton, E. T. 1909 A, 605.
Sinclair, W. J. 1905 D, 413, 493.
Trouessart, E. L. 1904 A, 512 (Cœndidæ).
Weber, M. 1904 A, 505.
Weber and Abel 1928 A, 269, 289.
Zittel and Schlosser 1911 A, 431 (Erethizontinæ).
1923 A, 515, 518 (Erethyzontinæ).
Zurkirch, J. 1910 A, 138.

ERETHIZON F. Cuvier. Type *Hystrix dorsata* Linnæus.

Cuvier, F. 1822 B, 426.
Hay, O. P. 1902 A, 733.
Allen, J. A. 1892 A.
1904 A, 384.
Ameghino, F. 1912 B, 179.
Beddard, F. E. 1902 A, 498.
Cope, E. D. 1880 U, 158.
Coues, E. 1883 A, 87, 88, fig. 38.
Cuvier, F. 1825 A, 178 ("éréthizon").
Elliot, D. G. 1901 A, 264.
Foote, J. S. 1916 A, 148, pl. xx.
Frech, F. 1907 A, 315.
Frech and Geinitz 1903 A, 33.
Gadow, H. 1916 A, 545.
Grant, M. 1904 B, 195.
Heilprin, A. 1887 A, 362.
Höfer, H. 1911 A, 463.
Hogben, L. T. 1919 A, 77.
Holland, W. J. 1912 B, 750 (Erythizòn).
Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 226.
Lilljeborg, W. 1866 A, 53.
Matthew, W. D. 1910 B, 72.
1915 A, 231.
1915 K, 402, 466.
1918 A, 198.
Merriam, C. H. 1892 A, 61.
Miller, G. S. 1912 B, 289.
1924 C, 436.
Nopcsa, F. 1923 C, 471.
1923 H, 91, 176.
Osborn, H. F. 1909 D, 87, 88, 90.
1910 B, 614.
Palmer, T. S. 1904 A, 269, 847.
Pocock, R. I. 1916 G, 548.
Scharff, R. F. 1895 A, 467.
1909 A, 529.
1911 A, 70, 403.
Schlosser, M. 1902 I, 738.
1911 A, 162.
Scott, W. B. 1905 B, 493.
1913 A, 680.
1916 A, 115 ("porcupine").
1928 B, 254.
Seton, E. T. 1909 A, 605.
Taylor, W. P. 1916 A, 426.
Toldt, C. 1905 A, 337, figs.
Tornier, G. 1891 A, 117.
Trouessart, E. L. 1904 A, 513.
Vicq-d'Azyr, F. 1792 A, 614 ("urson").
Wagner, A. 1841 A, 127.
Weber, M. 1904 A, 506.
Weber and Abel 1928 A, 289.
Winge, H. 1924 A, 8, 61.
Zurkirch, J. 1910 A, 139.

Erethizon dorsatum (Linnæus).

Hay, O. P. 1902 A, 733 (E. cloacinus, E. dorsatus).
Allen, J. A. 1904 A, 384 (E. cloacinus).
Baker, F. C. 1920 A, 208, 214, 397 (E. dorsatus).
Brown, B. 1908 A, 192, pl. xx.
Cuvier, F. 1822 B, 432, pl. ii, figs. 1-4.
Cuvier, G. 1825 A, v, 1, 19 (Hystrix).
Elliot, D. G. 1901 A, 264, pl. xxiv (E. dorsatus).
Fischer, J. B. 1829 A, 368 (Hystrix).
Frech and Geinitz 1903 A, 36.
Haug, E. 1911 A, 1886.
Hay, O. P. 1914 A, 32.
1920 B, 106.
1923 A, 484.
Leche, W. 1887 A, 603.
Leidy, J. 1889 H, 18.
Mercer, H. 1894 A, 98 ("porcupine").
1896 A ("porcupine").
1897 A, 58.
Miller, G. S. 1912 B, 289.
1924 C, 436.
Osborn, H. F. 1909 D, 90.
1910 B, 469.
Peterson, O. A. 1926 A, 279, fig. 5.
Rehs, J. 1914 A, 92.
Rhoads, S. N. 1903 A, 242.
Scharff, R. F. 1911 A, 27, 69.
Schlosser, M. 1902 H, 140.
Seton, E. T. 1909 A, 605, pl. xli; text-fig. 173, map 36.
Trouessart, E. L. 1904 A, 513.

Recent; eastern Canada: Pleistocene; Pennsylvania, Tennessee, Arkansas.

Erethizon epixanthum Brandt.

Brandt, J. F. 1835, Mém. Acad. Imp. Sci. St. Pétersb. (6), III, 390 (E. epixanthus).
Elliot, D. G. 1901 A, 265 (E. epixanthus).
Frech, F. 1906 A, 484.
Furlong, E. L. 1904 A, 54, 55.
1906 A, 243, 245.
Hay, O. P. 1927 D, 214.
Kellogg, L. 1912 A, 162, fig. 11.
Miller, G. S. 1912 B, 289.
1924 C, 437.
Miller, L. H. 1912 A, 73.
Scharff, R. F. 1911 A, 70.
Stock, C. 1925 A, 113.

Recent; Alaska to Arizona and Nebraska: Pleistocene (Samwel Cave); California.

Erethizon godfreyi Allen.

Allen, J. A. 1904 A, 383.
Hay, O. P. 1927 D, 133.

Pleistocene; Arizona.

Erethizon sp. indet.

Gidley, J. W. 1913 B, 96 (Maryland). Pleistocene (Middle); Maryland.
1920 B, 282 ("porcupines"). Pleistocene (Middle); Maryland.
Hay, O. P. 1923 A, 321. Pleistocene or Recent; Pennsylvania.

DASYPROCTIDÆ Smith.

Smith, H. 1842.
Hay, O. P. 1902 A, 734.
Ameghino, F. 1889 A, 1010.
Arldt, T. 1907 C, 676.
1907 D, 83.
Beddard, F. E. 1902 A, 493.
Burmeister, H. 1879 B, 257 (Cœlogenyidæ).
Cockerell and Miller 1914 A, 373.
Coues, E. 1883 A, 83.
Doran, A. H. G. 1878 A, 416, pl. lx.
Eggeling, H. 1904 A, 91 (Dasyprocta).
Frey, H. 1911 A, 408 (Dasyprocta).
Giebel, C. G. 1865 C, 431 (Dasyprocta).
Gray, J. E. 1821 A, 304 (Agoutidæ).
Krumbach, T. 1904 A, 278 ("caviiden").
Mackenzie, W. 1911 A, 364 (Dasyprocta).
Miller and Gidley 1918 A, 447.
Palmer, T. S. 1904 A, 845 (Dasyproctidæ, Agoutidæ).
Preller, W. 1907 A, 378, 418 (Dasyprocta).
Rehs, J. 1914 A, 69 (Dasyprocta).
Schlosser, M. 1900 G, 306 (Dasyprocta).
Schwalbe, G. 1904 A, 207 (Dasyprocta).
Scott, W. B. 1905 B, 492.
Sinclair, W. J. 1905 D, 384, 492.
Wagner, A. 1841 A, 128 (Subungulata, in part).
Weber, M. 1904 A, 506 (Dasyprocta).
Weber and Abel 1928 A, 290 (Dasyproctinæ).
Winge, H. 1924 A, 64, 76 (Dasyproctini).
Zaaijer, T. 1894 A, 340.

CUNICULUS Brisson. Type *Mus paca* Linnæus.

Brisson, M. J. 1762, Regn. Anim. ed. 2, 13.
Hay, O. P. 1902 A, 734 (Agouti).
Beddard, F. E. 1902 A, 493 (Cœlogenys).
Berthold, A. A. 1825 A, 910, 983 (Aguti).
Bronn, H. G. 1849 A, 714 (Cœlogenys).
Burmeister, H. 1879 A, 258 (Cœlogenys).
Cleland, J. 1863 B, 301 ("paca").
Coues, E. 1883 A, 84, fig. 36 (Dasyprocta).
Cuvier, F. 1806 A, 134 (Osteopera); 135 (Cœlogenus).
1807 B, 203, pl. ix (Paca, Cœlogenus).
1812 A, 287, pl. xv, fig. 11 (Cœlogenus); 290 (Cloromis).
Erdl, M. 1843 A, 529, 537 (Cœlogenys).
Gegenbaur, C. 1864 C, 178, pl. iv, fig. 4 (Cœlogenys).
1865 C, 548 (Cœlogenys).
Giebel, C. G. 1855 A, 58 (Cœlogenys).
1865 C, 331 (Cœlogenys).
1883 A, pls. xxiv, xlvi, lxx (Cœlogenys).
Hagmann, G. 1907 A, 464, figs. 7-20 (Cœlogenys).
Heilprin, A. 1887 A, 361 (Cælogenys).
Höfer, H. 1911 A, 463, pl. xxi, figs. 37, 38 (Cœlogenys).
Köstlin, O. 1844 A (Agouti).
Leche, W. 1887 A (Cœlogenys).
Le Damany, P. 1906 B, 164 ("paca").
Meckel, J. F. 1825 A ("paca").
Miller, G. S. 1912 B, 289 (Agouti).
1924 C, 445 (Cuniculus).
Owen, R. 1845 B, 401, pl. cv, fig. 14 (Dasyprocta).
Owen, R. 1866 B, 371, fig. 237 (Cœlogenys).
1868 A, 868 (Cælogenys).
Palmer, T. S. 1904 A, 84, 845 (Agouti).
Pander and Alton 1823 B, 7, pl. v ("paka").
1824 A, pl. ii (Dasyproctus).
Paulli, S. 1900 B, 519 (Cœlogenys).
Pictet, F. J. 1953 A, 260 (Cœlogenys).
Preller, W. 1907 A, 378, 418 (Cœlogenys).
Rehs, J. 1914 A, 92 (Cœlogenys).
Retzius, A. 1849 A, 543 (Dasyprocta).
Schwalbe, G. 1904 A, 207 (Cœlogenys).
Scott, W. B. 1905 B, 491 (Agouti).
Sinclair, W. J. 1905 D, 395, 490 (Agouti).
Tims, H. W. M. 1901 A, 285 (Cœlogenys).
Tornier, G. 1891 A, 176 (Cœlogenys).
Weber, M. 1904 A, 506 (Cœlogenys).
Weber and Burlet 1927 A, fig. 51 (Cœlogenys).
Winge, H. 1888 A, 64, 109, 133, 156 (Cœlogenys).
1924 A, 66, 77 (Cœlogenys).

Cuniculus paca (Linnæus).

Hay, O. P. 1902 A, 734.
Beddard. F. E. 1902 A, 493 (Cœlogenys).
Bronn, H. G. 1849 A, 715 (Osteopera platycephala).
Cuvier, G. 1825 A, v, 1, 21, 37, pl. i ("paca").
Hagmann, G. 1907 A, 479, pl. xxv (Cœlogenys).
Krumbach, T. 1904 A, 278, fig. 7 (Cœlogenys).
Miller, G. S. 1924 C, 445 (C. paca nelsoni).
Weber, M. 1904 A, 54, fig. 41 (Cœlogenys).

Recent; Mexico to South America. It is probable that this species has not been found fossil in North America.

CAVIIDÆ.

Inasmuch as *Hydrochœrus* is often referred to this family, the following citations of the literature are made.

Hay, O. P. 1902 A, 734.
Adloff, P. 1904 A, 141 (Cavia).
1913 A, 238 ("meerschweinchen").
Alezais, H. 1901 A, 126, 270, figs. 23-42 (Cavia).
Ameghino, F. 1889 A, 1008 (Cavidæ).
1893 B, 444.
Arldt, T. 1907 C, 676.
Beddard. F. E. 1902 A, 491.
Bonaparte, C. L. 1832 A, 290 (Subungulata, Cavidæ).
Burmeister, H. 1879 B, 259 (Caviadæ).
Cockerell and Miller 1914 A, 373, figs. 118-124.
Doran, A. H. G. 1878 A, 416.
Erdl, M. 1843 A (Cavia).
Foote, J. S. 1916 A, 92, pl. ix (Cavia).
Freund, P. 1892 A, 547 (Cavia).
Giebel, C. G. 1865 C, 431 ("caviinen").
1883 A ("caviinen").
Gill, T. 1885 B, 21 (Caviidæ, Hydrochœridæ).
Gray, J. E. 1821 A, 304 (Caviadæ).
Höfer, H. 1911 A, 463.
Hogben, L. T. 1919 A, 73.
Leuckart, F. S. 1835 A, 167 (Cavia).

Lobley, J. L. 1908 A, 205.
Löhle, B. 1913 A, 595 (Cavia).
Meckel, J. F. 1825 A ("cavien").
Miller and Gidley 1918 A, 448.
Miram, E. 1841 A, 542 ("meerschweinchen").
Preller, W. 1907 A, 378 ("caviiden").
Rehs, J. 1914 A, 69.
Retterer, E. 1884 A, 483 ("cochon d'Inde").
Schlosser, M. 1902 I, 708.
Scott, W. B. 1905 B, 492.
Sinclair, W. J. 1905 D, 460, 492.
Thomas, O. 1916 A, 301.
Tims, H. W. M. 1901 A, 261.
Toldt, C. 1905 A, 330, figs. (Cavia).
Tourneux, F. and J. P. 1912 A, 81, fig. 11 ("cobaye").
Trouessart, E. L. 1904 A, 524.
Wallace, A. R. 1876 A, ii, 241.
Waterhouse, G. R. 1839 B, 61.
    1839 C, 174.
    1839 D, 91.
    1842 A, 199.
Winge, H. 1888 A, 156.
Zittel and Schlosser 1911 A, 432 (Caviinæ).
    1923 A, 516 (Caviinæ).

HYDROCHŒRIDÆ Gill.

Gill, T. 1872 A, 304.
Coues, E. 1883 A, 82.
Gill, T. 1872 B, 22.
Miller and Gidley 1918 A, 448.
Wagner, A. 1841 A, 128 (Subungulata, in part).
Weber and Abel 1928 A, 290 (Hydrochœrinæ).

Hydrochœrus Brisson. Type *Sus hydrochœris* Linnæus.

Hay, O. P. 1902 A, 731.
Abel, O. 1912 F, 548, fig. 424.
    1914 A, 200, fig. 158.
Altmann, F. 1925 A, 108.
Ameghino, F. 1883 B, 70.
    1885 A, 44, 150, 177, 204.
    1889 A, 1015.
    1897 B, 263.
    1902 C, 244, pl. iii, figs. 14, 15.
    1912 B, 179.
Anderson, R. J. 1902 A, 1022, fig. 18.
    1903 A, 651 ("capybara").
    1905 A, 326, fig. 17 ("capybara").
    1908 A, 547 ("capybara").
Anthony, R. 1912 A.
Arldt, T. 1907 B, 451.
Bayer, F. 1897 A, 147.
Beddard, F. E. 1899 A, 798, figs. 1-5.
    1902 A, 492.
Berthold, A. A. 1825 A, 910, 983, pl. viii, fig. 5.
Boas, J. E. V. 1909 A, 536.
Böcking, A. 1865 A, 32.
Boule and Thevenin 1920 A, 227.
Burlet, H. M. 1917 A, 381.
Cope, E. D. 1880 U, 158.
Coues, E. 1883 A, 82.
Cuvier, F. 1825 A, 141, pl. xlvi ("capybara").
Doran, A. H. G. 1878 A, 417, pl. lx.
Erdl, M. 1843 A, 529, 544.
Fischer, E. 1903 A, 704.
Fischer, J. B. 1829 A, 378.
Flower, W. H. 1884 A, 252.
Foote, J. S. 1916 A, 102, pl. x.
Frech and Geinitz 1903 A, 34.
Gervais, P. 1855 A, 12, pl. xiii, fig. 3.
Giebel, C. G. 1855 A, 58, pl. xxiv, fig. 10.
    1883 A, pl. xxiv.
Hasse and Schwarck 1870 A, 111, figs. 35-37.
Hay, O. P. 1919 D, 364.
    1927 C, 281 ("capybaras").
Heilprin, A. 1887 A, 361, 365.
Höfer, H. 1911 A, 465, pl. xxii, figs. 39, 40.
Hogben, L. T. 1919 A, 73, 77.
Kampfen, P. N. 1905 A, 556.
Kingsley, J. S 1925 A, 209, fig. 221.
Köstlin, O. 1844 A.
Kraglievich, L. 1926 C, 68.
Kükenthal, W. 1891 C, 373, 384.
Leche, W. 1887 A.
Leunis and Ludwig 1883 A, 227.
Lilljeborg, W. 1866 A, 56.
Matthew, W. D. 1910 G, 159.
Owen, R. 1845 B, 400, pl. cv, fig. 17.
    1858 A, 22 ("capybara").
    1866 B, 369, fig. 234.
    1868 A, 885, fig. 235.
Palmer, T. S. 1904 A, 334, 844.
Pander and Alton 1823 B, 6, pl. viii.
Paulli, S. 1900 B, 520, figs. 31, 32.
Perna, G. 1906 A, 122, 139, pl.
Preller, W. 1907 A, 377, pls. ix-xiv.
Rehs, J. 1914 A, 92.
Reynolds, S. H. 1897 A, 437, 454, 476, 511, 526.
Schapiro, B. 1913 A, 219.
Scott, W. B. 1905 B, 495.
    1913 A, 205 (Hydrochœrus).
Sellards, E. H. 1916 B, 617.
Taschenberg, O. 1899 A, 4594.
Terra, P. 1911 A, 299, fig. 121.
Tims, H. W. M. 1901 A, 285.
Tornier, G. 1891 A, 177.
    1910 A, 558.
Trouessart, E. L. 1904 A, 529.
Van den Broeck, A. J. P. 1912 A, 782.
Virchow, H. 1910 E, 253.
    1913 A, 53.
Wagner, A. 1841 A, 128.
Wallace, A. R. 1876 A, i, 130.
Waterhouse, G. R. 1839 B, 61.
    1839 D, 597.
Weber, M. 1904 A, 506 (Hydrochœrus); 44, 66, 178, text-figs. 37, 38, 52, 138 (H. capybara).
Weber and Abel 1928 A, 255, 257, 290.
Weber and Burlet 1927 A, 60, figs. 40, 41, 64, 193.
Winge, H. 1888 A, 69, 109, 133, 156.
    1924 A, 68, 77.
Zietzschmann, O. 1917 A, 446.
Zittel and Schlosser 1911 A, 432.
    1923 A, 507, 516, fig. 629.

Hydrochœrus æsopi Leidy.

Hay, O. P. 1902 A, 734.
Allen, G. M. 1926 A, 449.
Hay, O. P. 1923 A, 363.

Holmes, F. S. 1860 A, iv ("capybara").
Leidy, J. 1886 D, 276.
Pleistocene (Early); South Carolina.

Hydrochœrus holmesi Simpson.

Simpson, G. G. 1928 H, 2, 7, figs. 2, 3.
Pleistocene (Early); Florida.

Hydrochœrus robustus Leidy.

Leidy, J. 1886 D, 275, fig. 1.
Hay, O. P. 1902 A, 734 (By error given as Leidy, J. 1888 B).
1923 A, 382.
This species may belong to *Neochœrus.*
Pleistocene; Nicaragua.

Hydrochœrus sp. indet.

Sellards, E. H. 1915 D, 114, fig. 50 ("capybara"). Pleistocene (Early); Florida.
1916 C, 151, 158 ("Hydrochœrus"). Pleistocene (Early); Florida.
1916 D, 617 (H. sp.). Pleistocene (Early); Florida.
1916 E, 16 (H. sp.). Pleistocene (Early); Florida.
1916 F, 9 (H. sp.). Pleistocene (Early); Florida.

NEOCHŒRUS Hay. Type *Hydrochœrus pinckneyi* Hay.

Hay, O. P. 1926 C, 6.
1926 E, 388 ("capybaras")
Simpson, G. G. 1928 H, 8.

Neochœrus pinckneyi (Hay).

Hay, O. P. 1923 A, 365, fig. 18 (Hydrochœrus).
Allen, G. M. 1926 A, 448 (Hydrochœrus; syn. of H. æsopi?).
Hay, O. P. 1923 B, 103, pl. vii, figs. 3-6 (Hydrochœrus).
1926 C, 5, pl. i, fig. 2; pl. vi, fig. 2; pl. vii, fig. 2.
1927 C, 281 ("capybaras").
1927 D, 287.
1928 C, 426.
Simpson, G. G. 1928 H, 8 (Hydrochœrus).
Pleistocene (Early); South Carolina, Texas.

Order PRIMATES Linnæus

Linnæus, C. 1758 A, 20.
Hay, O. P. 1902 A, 785.
Abel, O. 1913 B, 755a.
1919 A, 869.
1920 A, 453.
Adloff, P. 1901 B, 219 ("menschen").
1901 C, 420 ("menschen").
1903 A, 362 ("primaten").
1906 A, 106 ("menschen").
1907 B, 530 ("menschen").
1908 A ("primaten").
1908 B, 113 ("menschenaffen").
1909 A, 444 ("primaten").
1909 B, 828 ("menschen").
1910 B, 277 ("primaten").
1911 A, 505 ("primaten").
1912 A ("primaten").
1913 D, 869 ("primaten").
1915 A, 436 ("primaten").
1917 B, 352 ("mensch").
1920 A, 177 ("menschen").
1922 C, 293 ("primates").
Agassiz, L. 1844 C, 255 ("quadrumanes").
1844 D, 137 (Quadrumana).
Ahrens, H. 1913 B, 110 ("primaten").
Aichel, O. 1917 A, 98 ("primaten").
1918 A, 502 ("menschen").
Airey, L. B. 1919 A, 59, figs. 1, 2 ("man").
Allen, J. A. 1913 B, 110 ("primaten").
Altmann, F. 1925 A, 85 ("menschen").
Ameghino, F. 1902 D, 430.
1904 B, 74 ("primatos").
Anderson, R. J. 1903 A, 651.
1904 A, 147.
1910 A, 112.
1911 A, 639.
1912 C, 429.
1912 E, 907.
1913 A, 123.
Andrews, C. W. 1916 D, 548.
Anthony, R. 1903 A, 131 ("primates").
1905 A, 855.
1912 A.
1913 A, 257.
Appleton, A. B. 1922 A, 295.
Arldt, T. 1907 A, 237, 243.
1907 B, 448 ("primaten").
1907 D, 675.
1907 E, 209 ("primaten").
1912 A, 686.
1913 A, 82-96 ("primäten").
Bardeen, C. R. 1905 A, 163 ("man").
1905 B, 265 ("man").
Bardeleben, K. 1885 C, 160 ("menschen").
1889 A, 107 ("primaten").
1893 A, 163 ("menschen").
1904 A, 111 ("primaten").
1905 C, 158 ("primaten").
1909 A, 2 ("menschen", "affen").
Barrell, J. 1917 A, 16-26.
Bateson, W. 1892 A, 105.
Beddard, F. E. 1902 A, 533.
Bensley, B. A. 1902 A, 4 ("primates").
Bergglas, B. 1925 A, 127-148 ("menschen").
Bertelli, D. 1909 A, 182 ("primati").
Beyer, H. 1908 A, 78, 88 ("affen", "halbaffen").
1909 A, 18 ("menschen").
Black, D. 1925 A, 133-183, table 1.
Black, N. 1900 A, 20.
Bluntschli, H. 1911 A, 120.
1912 A, 489 ("primaten").
1912 B, 351, 353 ("primaten").
1913 A, 33 ("primaten").
Boas, J. E. V. 1884 B, 390 ("menschen", "affen").
1909 A, 536 ("primaten").
1914 B, 577 ("primaten").
Bolk, L. 1906 A, 103 ("primaten").

Bolk, L. 1909 A, 362.
    1910 A ("primaten").
    1910 B ("primaten").
    1910 C, 525.
    1913 A ("primaten").
    1914 A ("primaten").
    1915 A ("primaten").
    1915 B, 611 ("primaten").
    1921 A, 335 ("menschen").
    1921 B, 138, 161.
    1921 C, 219.
    1922 A, 119.
    1923 A, 16.
    1923 B, 373.
Bonaparte, C. L. 1832 A, 283.
    1833 A, 1042.
Bonsdorff, E. J. 1871 A, 303 ("menschen").
Boule, M. 1923 A, 499.
Broom, R. 1897 B, 252.
    1911 C, 319.
    1914 F, 296.
    1915 A, 162.
Brown, A. E. 1901 A, 119.
Burnett, G. T. 1828 A, 301 (Manupeda or Quadrumana).
Callender, G. 1868 A, 447 ("human").
Capitan, L. 1901 A ("l'homme").
Carus, V. 1875 A, 66.
Case, E. C. 1899 B, 183.
Caush, D. E. 1904 A, 157.
Chalikiopoulos, L. 1905 A, 647 ("man", "monkeys").
Chandler, A. C. 1914 B, 139 ("primates").
Cleland, J. 1863 B, 296 (Quadrumana).
Cohen, T. E. 1918 A, 33 ("menschen").
Cope, E. D. 1891 N, 79, 90 ("lemurs", "monkeys", "man").
Corner, E. M. 1896 A, 386 ("monkeys").
Coues, E. 1870 A ("man").
Cuvier, F. 1825 A, 7, pl. i ("quadrumanes").
Deinse, A. B. 1914 A, 289.
Depéret, C. 1904 B, 43.
    1912 A, 710.
Dieulafé and Herpin 1906 A, 242 ("homme").
Dijkstra, O. H. 1923 A, 297-318, figs. 1-11 (Homo).
Doran, A. H. G. 1878 A, 372 ("man", "monkeys").
Dublin, L. I. 1903 A, 732.
Duckworth, W. L. H. 1904 A, 28.
Earle, C. 1897 A, 569.
    1897 B, 309 ("apes").
Eastman, C. R. 1917 B, 656 ("primates").
Eastman, Gregory and Matthew 1917 A, 120.
Ebner, V. 1906 A ("manschen").
Eggeling, H. 1904 A, 99 ("quadrumanen").
    1922 A, 33.
Eimer, G. H. T. 1901 A, 256 ("affen").
Eisler, P. 1895 A ("primaten").
Elliot, S. G. 1921 A, 185.
Eternod, A. C. F. 1895 A ("l'homme").
    1900 A, 174 ("l'homme").
    1911 A, 144.
Fawcett, E. 1910 A ("human").
    1911 A, 378, figs. 1-23, 24 ("man").
Fejéváry, G. J. 1925 A, 178 ("primaten").
Fischer, E. 1903 A ("affen").
    1905 B, 400 ("apes, man").
Fischer, G. 1909 A, pls. li-lxiv; text-figs. 1-27.
Fischer, J. B. 1829 A, 1.
Fischer, P. 1902 A, 410 ("primaten").
Fleischmann, A. 1904 A, 483.
Frassetto, F. 1903 A, 161, 189, 195, 215.
Frets, G. P. 1909 A, 107 ("primaten").
    1912 A, 409, figs. 1-10, 26-50 ("primaten").
    1913 A, 557 ("primaten").
Freudenberg, W. 1923 A, 122 (Homo, "menschaffen").
Freund, L. 1902 A.
Frey, H. 1911 A, 422.
Fuchs, H. L. 1909 B, 142.
    1914 A, 24 ("primaten").
Gaudry, A. 1902 B, 269 ("hommes", "singes").
Gaupp, E. 1910 D, 81 ("mensch").
Gegenbaur, C. 1864 C, 188 ("quadrumanen").
    1880 A, 587 ("mensch").
Geoffroy St. Hilaire, E. F. 1812 A, 85 ("quadrumanes").
    1824 H, 173 ("homme").
Gervais, P. 1852 A, 4.
    1853 B, 40 ("singes").
    1859 A, 6.
Gidley, J. W. 1919 A, 275.
    1922 D, 269.
    1923 A, 2, 15, 18.
Gottlieb, H. 1914 A, 190.
Gray, J. E. 1825 B, 337.
Gregory, W. K. 1912 C, 194.
    1913 C, 248.
    1914 F, 529.
    1915 A, 419.
    1915 B, 349.
    1915 C, 383.
    1916 A, 239, 248.
    1916 B, 258, 266.
    1917 A, 386.
    1917 D, 635.
    1920 A, 200, 246, 248.
    1921 A, 49-243.
    1922 A, 544.
    1926 B, 415.
    1927 A, 602 ("primates").
    1927 F, 386, 395, fig.
    1927 G, 271.
    1927 I, 549.
    1927 J, 443 ("primates").
Gregory and Camp 1918 A.
Gregory and Hellman 1926 A, 9.
Gruber, W. 1873 A, 338 ("menschen", Simiæ).
Haeckel, E. 1873 A, 568, 570.
    1908 A.
Hanson, F. B. 1920 A, 309 ("man").
Hasse, C. 1872 B, 542 ("menschen").
Hasse and Schwarck 1870 A, 21 ("menschen"); 79 (Quadrumana).
Hayek, H. 1926 A, 176 ("menschen").
Heilprin, A. 1887 A, 393.
Hensel, R. 1879 A, 555.
Hill, J. P. 1920 A, 476.
Hoernes, R. 1886 A, 703.
Hoever, R. 1911 A, 81 ("menschen").
Holl, M. 1882 A, 181 ("menschen").
Hommes, J. H. 1924 A, 39.
Hrdlička, A. 1903 A ("man," "monkeys").
    1920 A, 460.
    1921 A, 141-176 ("human").

Hrdlička, A. 1924 A.
Hubrecht, A. A. W. 1897 A, 1-41.
1908 A, 150.
Huene, F. 1912 F, 522 ("primaten").
Huxley, T. H. 1863 E, 554, 555, 607, 633.
1863 F, 190 ("man").
1864 D, i, ii.
1868 C, 318.
1869 G, 449, fig. 6 ("human").
1880 E, 459.
Kaempfert, W. 1927 A, 8.
Keith, A. 1902 A, 18.
Kjellberg, K. 1904 A, 159 ("mensch").
Klaatsch, H. 1901 B.
1913 A, 161 ("primates").
Köstlin, O. 1844 A ("affen").
Kükenthal, W. 1913 A, 684.
Kunstler and Chaine 1906 A, 99.
Laloy, L. 1907 A, 584 ("primates").
Lavocat, A. 1885 A, 51 ("quadrumanes").
Lazarus, S. P. 1896 A, 1 ("primaten").
Leboucq, H. 1884 A, 66 ("singes").
1904 C, 227 ("homme").
Leche, W. 1887 A.
1900 A, 1035.
1912 A.
1915 B, 526 ("primaten").
Le Damany, P. 1906 B, 164.
Ledouble, A. F. 1903 A, 646.
Loomis, F. B. 1911 C, 479.
1921 A, 191.
Lubosch, W. 1906 B, 322 ("menschen").
1911 A, 329 ("primaten").
Lull, R. S. 1906 B, 563.
1917 B, 338, 642, 721.
Lydekker, R. 1903 D, 125.
MacBride, E. W. 1920 A, 497.
Magitot, E. 1875 A ("hommes," "singes").
Major, C. J. F. 1872 A, 153 (Quadrumana).
1899 B, 62.
1901 A, 129 ("monkeys").
Manners-Smith, T. 1908 A, 397.
Martins, C. 1857 A ("quadrumanes").
1872 A, 307.
Matthew, W. D. 1901 B, 374.
1909 C, 92, 93, 95, 98, 100.
1909 D, 298, 308, 333, 549.
1912 E, 254.
1915 A, 274, figs. 7, 8.
1915 F, 433.
1915 K, 439, 442.
1916 I, 108 ("primates").
1921 D, 214.
1923 C, 410.
1928 B, 948, 965, 975.
Mead, C. S. 1906 A, 482.
Meckel, J. F. 1825 A ("affen").
Merriam, J. C. 1910 D, 601 ("primates").
Miller, G. S. 1912 B, 379.
1920 A, 213-245, 3 figs.
Mitchell, P. C. 1920 A, 497.
Mivart, St. G. 1874 B, 9.
Mochi, A. 1908 A, 182.
Mollison, T. 1910 A ("primaten").
1924 A, 701 ("primaten").
Moreau, L. 1914 A, 83.
Morton, D. J. 1924 A, 1-52, figs. 1-25.
Müller, F. 1911 A, 535 ("primaten").
Nowikoff, M. M. 1909 A, 1 ("mensch").
Oken, L. 1823 A, 278-284 ("menschen", "affen", "lemur").
Oppenheim, S. 1911 A, 1 ("primaten").
Osborn, H. F. 1901 D, 623 ("primates").
1902 E, 356, fig. 1.
1905 I, 99.
1905 N, 241.
1907 G, 14, 48, 56, 101, 157.
1909 D, 134.
1910 D, 737.
1916 B, 543.
1917 B, 319.
1922 D, 721.
1922 E, 283.
1924 K, 275 ("primates").
1925 B, 18.
Ossenkopp, G. J. 1925 A, 463-507.
Owen, R. 1848 B, 132, fig. 25 ("man").
1855 E, 26 (Quadrumana, Bimana).
1857 E (Bimana, Quadrumana).
1858 A, 32 (Quadrumana, Bimana).
1868 A, 904 (Quadrumana).
Palacký, J. 1899 A, 1 ("affen").
Pander and Alton 1824 B, 1 ("vierhänder").
Parker and Haswell 1897 A, 520.
Paterson, A. M. 1901 A, 21 ("man").
Paulli, S. 1899 A, 169 ("primaten").
Perna, G. 1906 A, 122 ("affen," "mensch").
Perrier, E. 1920 A, 372.
Pia, J. 1916 A, 128 ("primaten").
Pilgrim, G. E. 1915 A, 1-74, pls. i-iv.
Pinkus, F. 1904 A, 122 ("mensch").
Pocock, R. I. 1918 A, 51.
1920 A, 494.
Puccioni, N. 1908 A, 41.
Remane, A. 1922 A.
Retterer, E. 1884 A, 503, 531 ("singes").
Retterer and Valois 1912 A, 379 ("primates").
1912 C, 432 ("l'homme").
Reynolds, S. H. 1897 A, 551.
Röse, C. 1892 F, 395 ("menschen").
Rosenberg, E. 1895 A.
Ruge, G. 1892 A, 184 ("primaten").
1892 B, 377 ("mensch," "affen").
Scharff, R. F. 1911 A, 230.
Schlosser, M. 1898 B, 361.
1900 B, 301.
1900 C, 133 ("menschen," "affen").
1901 K, 467.
1902 J, 229.
1905 A, 324 ("primaten").
1907 C, 197.
1911 A, 143.
1921 A, 100.
Schorr, G. 1907 A, 25 ("menschen").
Schwalbe, G. 1904 B ("primaten").
1910 A ("primaten").
Schwarz, E. 1924 A, 419.
Scott, W. B. 1896 C, 308.
1913 A, 281, 577.
Seeley, H. G. 1878 A, 226 ("lemurs," "apes").
Sera, G. L. 1921 A, 47 ("primati").
Shaw, D. M. 1917 A, 97 ("men").
Smith, G. E. 1907 A, 163.
1907 B, 7.
1913 A, 562.
1920 A, 465.

Standing, H. F. 1907 A, 59.
1907 B, 55.
Stehlin, H. G. 1912 A, 1290 ("primaten").
1916 B ("primaten").
Steinmann, G. 1909 A, 81 ("primaten").
Stratz-Hoag, C. H. 1906 A, 90 ("menschen," "affen").
Strecker, C. 1887 A, 319 ("quadrumanen").
Stromer, E. 1902 B, 561 ("primaten").
1912 A, 188, 244.
Sutton, J. B. 1884 A, 567, 568, text-figs. 1-3 ("man").
Taschenberg, O. 1899 A, 4449.
Terra, P. 1911 A, 348.
Thacker, A. G. 1914 A, 283.
1922 A, 594.
Thompson, A. H. 1900 A, 924 ("primates")
Tims, H. W. M. 1903 A, 145.
Todd, T. W. 1922 A, 271.
Toldt, C. 1904 A, 43 ("menschen," "affen").
Tornier, G. 1889 A, 175 ("affen").
1891 A, 125.
1894 A, 97 ("anthropomorphen").
Tredgold, A. F. 1897 A, 288.
Underhill, B. M. 1910 A, 76, 85.
Underwood, A. S. 1910 A, 354, figs. 1-14 ("man," "apes").
Vallois, H. V. 1921 B, 975.
Van den Broeck, A. J. P. 1911 A, 163 ("primaten").
1911 B, 185 ("primaten").
1912 A, 781.
1914 A, 1 ("primaten").
Vicq-d'Azyr, F. 1792 A, xcv, 1, 265 ("singes").
Vriese, B. 1908 A, 163 ("menschen").
Wagner, R. 1843 A, 12 (Quadrumana).
Walkhoff, O. 1901 A, 582 ("primaten").
Wallace, A. R. 1876 A, I, 500; II, 170-180.
Wallisch, W. 1906 A, 303 ("mensch").
Walmsley, T. 1918 A, 327.
Weber, M. 1904 A, 740 (Primates); 774 (Quadrumana).
Weber and Abel 1928 A, 714.
Weber and Burlet 1927 A, 123.
Weidenreich, F. 1913 A, 497 ("primaten").
1922 B, 55.
Weinberg, R. 1926 A, 137, pls. vi, vii, figs. 1-4 (Homo).
Westrienen, A. F. A. S. 1906 A, 1 ("primaten").
Whitehead and Waddell 1911 A, 103 ("human").
Wiedersheim, R. 1892 A, 61 ("primaten").
Wilder, B. G. 1867 A, 44 ("man").
Windle and Humphreys 1887 A, 688 ("man").
Winge, H. 1924 A, 250.
Woodward, A. S. 1898 B, 403.
1898 D, 336.
Woodward, H. 1904 B, 163.
Worthmann, F. 1922 A, 307, fig. 2 ("menschen," affen").
Wortman, J. L. 1901 C, 209.
1902 A, XIII, 45.
1903 A, XV, 163, 399, 419, 430.
1921 A, 181.
Wright, R. R. 1883 A, 480.
Zaaijer, T. 1894 A, 337, figs. 1, 2 ("menschen").
Zietzschmann, O. 1917 A, 434 ("primaten").
Zittel and Schlosser 1911 A, 544.
1923 A, 637, 650.
Zondek, M. 1895 A, 503 ("mensch").

Suborder Lemuriformes Gregory.

Gregory, W. K. 1915 A, 426, 432 (As "series" under Lemuroidea).

Unless otherwise indicated the authors, as quoted, use for this group the name Prosimiæ.

Hay, O. P. 1902 A, 786.
Abel, O. 1908 C, (36) (Lemuroidea).
1912 F, 294.
1913 B, 755a (Lemuroidea).
1914 A, 254 (Lemuroidea).
1920 A, 453 (Lemuroidea).
Adloff, P. 1906 A, 108 ("lemuriden").
Ameghino, F. 1889 A, 1023 (Prosimia).
1901 A, 355.
1906 A, 289, 421 ("prosimiens").
Appleton, A. B. 1922 A, 301.
Arldt, T. 1907 D, 676.
1907 E, 208 ("halbaffen").
Bardeleben, K. 1885 B, 85 ("halb-affen").
1904 A, 113 ("halbaffen").
Bardenfleth, K. S. 1913 A, 84 (Lemuroidea).
Beddard, F. E. 1902 A, 534 (Lemuroidea).
Beyer, H. 1908 A, 88 ("halbaffen").
Black, D. 1925 A, 141.
Bluntschli, H. 1911 A, 121 ("prosimier").
1911 B, 353 ("halbaffen").
1912 B, 353 ("lemurinen").
1913 A, 38.
Boas, J. E. V. 1909 A, 536 ("prosimier").
1914 B, 577, 598.
Bolk, L. 1922 A, 118.
1923 B, 372, fig. 2 (Lemur).
Bonaparte, C. L. 1833 A, 1042 (Lemures).
Brown, A. E. 1901 A, 125 (Lemuroidea).
Burnett, G. T. 1828 A, 307 (Lemuridæ).
Carlsson, A. 1922 A, 233, 236.
Carter, J. T. 1922 A, 601 (Lemuroidea, Lemuriformes).
Carus, V. 1875 A, 113 (Prosimii).
Carus and Engelmann 1861 A, 1303, 1687, 1793 (Quadrumana, in part).
Chardin, T. 1922 A, 106 ("lémuroïdes").
Clark, W. E. L. 1924 A, 564.
Clark and Sonntag 1926 A, 461. (Prosimiæ).
Cope, E. D. 1880 U, 152 (Mesodonta).
1885 EE, 609 (Lemuroidea).
Cunningham, J. T. 1920 A, 496 ("lemurs").
Duckworth, W. L. H. 1904 A, 34 (Lemuroidea).
Earle, C. 1897 A, 570 ("lemurs"); 571, 681 (Lemuroidea).
1897 B, 309, 311 (Lemuroidea).
Eggeling, H. 1922 A, 33 ("halbaffen").
Elliot, S. G. 1921 A, 185.
Geoffroy St. Hilaire, E. F. 1912 A, 156 (Strepsirrhini).
Gidley, J. W. 1922 A, 269 (Lemuroidea).
Giebel, C. G. 1855 A, 6.
1883 A ("halbaffen").
Gill, T. 1872 A, 786.
1872 B, 50, 54.

Granger and Gregory 1817 A, 842 (Lemuriformes, as suborder).
Gregory, W. K. 1914 B, 141 (Lemuroidea).
1914 F, 529 (Lemuroidea).
1915 A, 426, 432 (Lemuroidea, Lemuriformes).
1916 B, 261, 266 (Lemuroidea, Lemuriformes).
1920 A, 200 (Lemuroidea).
1921 A, 58, 59, 183, 232 (Lemuroidea).
1922 A, 114, 115 (Lemuroidea).
1927 I, 549 ("lemurs").
Haacke, W. 1886 A, 367 ("lemuroiden").
Haeckel, E. 1873 A, 544, 589.
1908 A.
Heilprin, A. 1887 A, 393 (Lemuroidea).
Henckel, K. O. 1927 A, 365, 382 (Lemuroidea).
Hill, J. P. 1920 A, 478 ("lemuroids").
Hoernes, R. 1886 A, 702.
Hogben, L. T. 1919 A, 76.
Hrdlička, A. 1920 A, 462 ("lemurs").
Hubrecht, A. A. W. 1897 A, 9 (Prosimiæ).
1908 A, 161 (Lemuroidea).
Huxley, T. H. 1880 E, 459 (Lemuroidea).
Kampfen, P. N. 1905 A, 329, 654.
Kaudern, W. 1910 A, 561 ("halbaffen").
Klaatsch, H. 1913 A, 163 ("prosimier").
Köstlin, A. 1844 A ("halbaffen").
Kohlbrugge, J. H. F. 1902 A, 318 ("halbaffen").
Kükenthal, W. 1913 A, 684.
Laloy, L. 1907 A, 588 ("lemuriens").
Leche, W. 1887 A, 1024 (Prosimiæ).
Leunis and Ludwig 1883 A, 164 (Prosimii).
Lubosch, W. 1911 A, 329 ("prosimier").
Lull, R. S. 1917 B, 643 (Lemuroidæ).
Lydekker, R. 1903 D, 124 (Lemuroidea).
MacBride, E. W. 1920 A, 497 ("lemurs").
Major, C. J. F. 1901 A, 163 ("prosimier").
Manners-Smith, T. 1908 A, 413 (Lemuroidea).
Matschie, P. 1896 A, 249 ("halbaffen").
Matthew, W. D. 1909 D, 298, 308 (Lemuroidea).
1912 E, 255 ("lemuroids").
1915 A, 215 (Lemuroidea).
1915 K, 442 (Lemuroidea).
Mitchell, P. C. 1905 A, 503.
1920 A, 497 ("lemurs").
Mivart, St. G. 1874 B, 9 (Lemuroidea).
Osborn, H. F. 1898 U, 686 (Lemuroidea).
1907 G, 14, 157 (Lemuroidea).
1925 B, 18 (Lemuroidea).
Paulli, S. 1900 B, 521, 541.
Perrier, E. 1920 A, 372 ("lemuriens").
Pia, J. 1916 A, 128 ("prosimier").
Pocock, R. I. 1916 G, 548 ("lemuroids").
1918 A, 51, 53 (Lemuroidea).
1920 A, 494 ("lemurs").
Retterer and Vallois 1912 A, 379 ("lemuriens").
Reynolds, S. H. 1897 A, 545 (Lemuroidea).
Ruge, G. 1892 A, 185 ("halbaffen").
Scharff, R. F. 1911 A, 364 ("lemuroids").
Schlosser, M. 1898 B, 360 (Lemuroidea).
1899 L, 356 ("halbaffen").
1902 I, 738.
1902 J, 133.
1905 A, 326, 328 (Lemuroidea).
1921 A, 103 (Lemuriformes).
Schmidt, O. 1886 A, 294.
Schwalbe, G. 1904 A, 219 ("prosimier").
1904 B ("halbaffen").
Scott, W. B. 1913 A, 578, 684 (Lemuroidea).
Seeley, H. G. 1886 A, 414 (Prosimiæ).
Smith, G. E. 1907 A, 175, 176.
1907 B, 7 (Lemuroidea).
1920 A, 466 (Lemuroidea).
Standing, H. F. 1907 A, 161.
1907 B, 55 ("lemurs").
Steinmann, G. 1907 A, 504.
Storr, G. C. C. 1780, Prod. Meth. Mamm., 32 (Prosimiæ).
Stromer, E. 1902 B, 555, 561 ("prosimier").
Taschenberg, O. 1899 A, 4448 (Prosimiæ).
Terra, P. 1911 A, 345 (Prosimiæ).
Thacker, A. G. 1922 A, 603 (Lemuroidea).
Toldt, C. 1905 A, 335 ("halbaffen").
Tornier, G. 1894 B, 104 ("halbaffen").
Tredgold, A. F. 1897 A, 289 (Lemuroidæ).
Trouessart, E. L. 1907 A, 125 ("lemuriens").
Van den Broeck, A. J. P. 1912 A, 783.
Wallace, A. R. 1876 A, II, 176 (Lemuroidea).
Weber, M. 1904 A, 757, 764 (Lemures); 762, 765 (Mesodonta).
Weber and Abel 1928 A, 716, 718, 733, 739, 888 (Lemuroidea).
Weber and Burlet 1927 A, xv (Lemuroidea).
Weidenreich, F. 1922 B, 61 ("prosimier").
Winge, H. 1924 A, 253 (Lemuroidei).
Wood-Jones, F. 1920 A, 491 (Lemuroidea).
Woodward, A. S. 1898 B, 403 (Lemuroidea).
1917 D, pl. lxviii (Lemuroidea).
Wright, R. R. 1883 A, 481 (Lemuroidea).
Zittel and Schlosser 1911 A, 544 (Lemuroidea).
1923 A, 638.

Superfamily LEMUROIDÆ, new name.

Abel, O. 1908 C (36) (Mesodonta).
Major, C. J. F. 1880 A, 42 ("lemuroiden").
Matthew, W. D. 1928 B, 960 ("lemuroid primates").
Osborn, H. F. 1902 C, 178 (Mesodonta).
1907 C, 613 (Mesodonta).
Ossenkopp, G. J. 1925 A, 468, 479 (Lemuroidea).
Schuchert and Levene 1927 A, 311 ("lemurs").
Schlosser, M. 1907 C, 222 (Mesodonta).
1921 A, 102.
Weber and Burlet 1927 A, xv (Lemuroidea).
Winge, H. 1924 A, 253 (Lemuridæ).
Wortman, J. L. 1903 A, xv, 408 (Mesodonta).

The literature cited under Lemuriformes may be consulted.

ADAPIDÆ Trouessart.

Trouessart, E. L. 1879, Rev. Mag. Zool. (3), VII, 223, 225.
Abel, O. 1908 C (36).
1913 B, 755*b*.
Abel, O. 1914 A, 255.
Ameghino, F. 1889 A, 102, 893 (Adapisidæ).
1904 A, 110, 111 (Adapis).
1906 A, 291.

Beddard, F. E. 1902 A, 553 (Adapis).
Behlen, H. 1907 A, 269 (Adapis).
Black, D. 1925 A, 143.
Bluntschli, H. 1911 A, 121.
1912 B, 354 ("adapiden"); 370, fig. 13 (Adapis).
Bronn, H. G. 1849 A, 707 (Adapis).
Chapman, H. C. 1904 A, 149, 155.
Cope, E. D. 1880 U, 153 ("adapidées").
Cuvier, G. 1825 A, III, 265, pls. (Adapis).
Earle, C. 1897 A, 686 (Adapis).
Filhol, H. 1877 A, 87 (Adapis).
Gervais, P. 1859 A, 171 (Adapis).
Gidley, J. W. 1923 A, 20.
Granger and Gregory 1917 A, 842.
Gregory, W. K. 1913 C, 251 (Adapis).
1914 F, 529.
1915 A, 420, 432.
1915 C, 383.
1916 A, 253.
1916 B, 261, 266.
1917 D, 631.
1920 A, 202 (Adapis).
1921 A, 58, 62, 183.
1922 A, 531, figs. 66, 69, 71.
1927 I, 559 ("adapids").
Gregory and Hellman 1926 A, 12.
Heilprin, A. 1887 A, 348, 402 (Adapis).
Hubrecht, A. A. W. 1908 A, 160, 165.
Leche, W. 1900 A, 1025 (Adapis).
Lemoine, V. 1889 A, 236 (Adapis).
Loomis, F. B. 1906 A, 280.
Major, C. J. F. 1901 A, 134 (Adapis).
Matthew, W. D. 1909 D, 298.
1915 A, 216.
1915 F, 433.
1921 D, 214.
Neumayer, L. 1906 A, 100 (Adapis).
Osborn, H. F. 1902 D, 266, fig. 5 (Adapis).
Ossenkopp, G. J. 1925 A, 479.
Palacký, J. 1899 A, 2.
Palmer, T. S. 1904 A, 77, 890 (Adapis).
Pia, J. 1916 A, 129 ("adapiden").
Schlosser, M. 1887 B, 22.
1889 L, 357 (Adapis).
1905 A, 329.
1907 C, 222.
1911 A, 62 (Adapis).
1921 A, 107 ("adapiden").
Seeley, H. G. 1878 A, 226 (Adapis).
Stehlin, H. G. 1912 A, 1272 ("adapiden").
1916 B, 1386 ("adapiden").
Stromer, E. 1902 B, 555 (Adapis).
Thacker, A. G. 1922 A, 604.
Trouessart, E. L. 1904 A, 43.
Weber and Abel 1928 A, 741.
Winge, H. 1924 A, 257, 259 (Adipini).
Woodward, A. S. 1898 B, 404, fig. 226 (Adapis).
Wortman, J. L. 1903 A, 412.
Zittel and Schlosser 1911 A, 545.
1923 A, 639, 666.

NOTHARCTINÆ Trouessart.

Unless otherwise indicated the authors, as quoted, use for this group the family name Notharctidæ.

Trouessart, E. L. 1904 A, 40.
Abel, O. 1908 C (36).
1913 B, 756.
1914 A, 255, 257.
1919 A, 875.
1922 C, 293.
Bluntschli, H. 1911 A, 121.
1912 B, 354.
Depéret, C. 1905 C, 703 ("notharctidés").
1908 A, 112.
Gidley, J. W. 1922 A, 269 ("notharctids").
1923 A, 8, 20, 24.
Granger and Gregory 1917 A, 842 (Notharctinæ).
Gregory, W. K. 1914 F, 529.
1915 A, 420 (Notharctidæ; 433 (Notharctinæ).
1915 C, 383 (Notharctidæ, Notharctinæ).
1921 A, 58 (Notharctidæ); 123, 134, 139, 149, 178, 184, 193, 208, 229 (Notharctinæ).
1922 A, 541.
Gregory and Hellman 1926 A, 12, 103.
Hilzheimer, M. 1913 A, 568.
Loomis, F. B. 1911 C, 482.
Matthew, W. D. 1909 C, 92, 95, 98, 100.
1909 D, 509.
1914 B, 387.
1917 C, 837.
Osborn, H. F. 1901 D, 623.
1902 C, 176, 190.
1902 E, 361.
1905 I, 101.
1909 D, 46, 52.
1910 B, 134, 161, 164, 543.
Ossenkopp, G. J. 1925 A, 482, 489, fig. 3.
Pia, J. 1916 A, 128 ("notharctier").
Schlosser, M. 1907 C, 222.
Scott, W. B. 1913 A, 578.
Stehlin, H. G. 1912 A, 1286 ("notharctiden").
1916 B, 1386, 1476, 1518, 1539 ("notharctiden").
Thacker, A. G. 1922 A, 604.
Todd, T. W. 1922 A, 276.
Weber, M. 1904 A, 763.
Weber and Abel 1928 A, 741.
Wortman, J. L. 1903 A, xv, 408.

PELYCODUS Cope. Type *Prototomus jarrovii* Cope.

Hay, O. P. 1902 A, 789.
Abel, O. 1913 B, 756.
1914 A, 257.
1922 C, 293.
Black, D. 1925 A, table.
Boule, M. 1923 A, 78.
Carter, J. T. 1922 A, 604, 607.
Chardin, T. 1922 A, 83.
Depéret, C. 1905 C, 704.
1912 A, 707.
Gidley, J. W. 1923 A, 8, 21.
Granger and Gregory 1917 A, 841.
Gregory, W. K. 1913 A, 117.
1913 C, 251.

Gregory, W. K. 1915 A, 420, 433.
1917 D, 630.
1920 A, 202.
1921 A, 57, 184.
1922 A, 116, 423, 513, 543, fig. 315.
Haug, E. 1911 A, 1528.
Loomis, F. B. 1906 A, 280, 281.
1911 C, 479.
Matthew, W. D. 1909 C, 100.
1909 D, 509.
1915 F, 434, 435.
1915 K, 472.
1918 H, 570.
1924 E, 749.
1928 B, 975.
Osborn, H. F. 1901 D, 623.
1902 C, 192.
1907 G, 157, figs. 127, 132.
1909 D, 133.
1910 B, 134, 543.
1912 G, 236, fig. 3.
Ossenkopp, G. J. 1925 A, 483.
Palmer, T. S. 1904 A, 521, 901.
Perrier, E. 1920 A, 273.
Pia, J. 1916 A, 128.
Rogers, A. F. 1924 A, 545.
Schlosser, M. 1911 A, 67.
1921 A, 103.
Scott, W. B. 1913 A, 580.
Seeley, H. G. 1886 A, 416.
Stehlin, H. G. 1912 A, 1288.
1916 B, 1319, 1430, 1434, 1518.
Trouessart, E. L. 1904 A, 40.
Weber, M. 1904 A, 508, 762, 763, 765.
Weber and Abel 1928 A, 741.
Wortman, J. L. 1903 A, xv, 409.
Zittel and Schlosser 1911 A, 546.
1923 A, 639, 666.

Pelycodus frugivorus Cope.

Hay, O. P. 1902 A, 789.
Abel, O. 1913 B, 755 b, figs. 110, 111.
1914 A, 258, figs. 233, 234.
1922 C, 293, figs. 246, 247.
Gidley, J. W. 1926 E, 41.
Granger and Gregory 1917 A, 841.
Gregory, W. K. 1915 C, 383.
1917 D, 631.
1921 A, 141, pl. xxxv.
1922 A, pl. vii.
Loomis, F. B. 1906 A, 281, 285, fig. 3.
1907 B, 356.
Matthew, W. D. 1909 C, 92.
1915 F, 436, 439, figs. 11-14.
Osborn, H. F. 1902 C, 191, 193, figs. 20, 21.
Ossenkopp, G. J. 1925 A, 483.
Reeside, J. B. 1924 A, 46.
Trouessart, E. L. 1904 A, 40.
Weber, M. 1904 A, 762, fig. 545.
Weber and Abel 1928 A, 741, fig. 523.
Zittel and Schlosser 1911 A, 546, fig. 740.
1923 A, 639, fig. 782.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Pelycodus jarrovii Cope.

Hay, O. P. 1902 A, 790.
Chardin, T. 1922 A, 98 (P. jarrowi).
Gregory, W. K. 1917 D, 631.
1921 A, 133, 137, pls. xxxv-xxxvii.
1922 A, pl. v.
Loomis, F. B. 1906 A, 282.
Matthew, W. D. 1909 C, 92.
1915 F, 436, 438, figs. 9, 10.
Osborn, H. F. 1902 C, 174, 193.
Ossenkopp, G. J. 1925 A, 483.
Reeside, J. B. 1924 A, 46.
Trouessart, E. L. 1904 A, 40 (P. jarrovi).
Lower Eocene (Wasatch); New Mexico.

Pelycodus ralstoni Matthew.

Matthew, W. D. 1915 F, 436, figs. 4-6.
Gidley, J. W. 1918 B, 59 (Polycodus).
Granger and Gregory 1917 A, 841.
Gregory, W. K. 1916 B, 263, fig. 2.
1917 D, 630, 631.
1921 A, 60, 134, 138, 141, 190, pls. xxxv-xxxvii; text-figs. 39, 71.
1922 A, pl. vii.
1927 I, 558.
Ossenkopp, G. J. 1925 A, 483.
Stehlin, H. G. 1916 B, 1519, 1544.
Lower Eocene (Wasatch); Wyoming.

Pelycodus trigonodus Matthew.

Matthew, W. D. 1915 F, 436, figs. 7, 8.
Granger and Gregory 1917 A, 841.
Gregory, W. K. 1916 A, 240, figs. 1, 10, 11.
1917 D, 631.
1918 A, 8, figs. 4-6, 9.
1921 A, 60, 133, 135, pls. xxxv-xxxviii, xl, xli.
1922 A, 120, 127, 129, pl. v; text-figs. 55, 61, 62.
Ossenkopp, G. J. 1925 A, 483.
Stehlin, H. G. 1916 B, 1477, 1544.
Lower Eocene (Wasatch); Wyoming.

Pelycodus tutus Cope.

Hay, O. P. 1902 A, 790.
Loomis, F. B. 1906 A, 281, 285, fig. 4.
1907 B, 356.
Matthew, W. D. 1909 C, 92.
1915 F, 436, 441, fig. 15.
Osborn, H. F. 1902 C, 174, 176, 194, fig. 4.
Ossenkopp, G. J. 1925 A, 483.
Reeside, J. B. 1924 A, 46.
Seeley, H. G. 1886 A, 416 (Tomitherium).
Trouessart, E. L. 1904 A, 40.
Lower Eocene (Wasatch); Wyoming, New Mexico.

Pelycodus sp. indet.

Matthew, W. D. 1909 C, 92, 95. Middle Eocene (Bridger and Wind River); Wyoming.

NOTHARCTUS Leidy. Type *N. tenebrosus* Leidy.

Hay, O. P. 1902 A, 788 (Tomitherium), 789 (Notharctus, Limnotherium), 793 (Hipposyus, Telmalestes).
Abel, O. 1913 B, 756.
    1914 A, 257.
    1922 C, 293.
Beddard, F. E. 1902 A, 552, 553 (Tomitherium).
Black, D. 1925 A, table.
Bolk, L. 1914 A, 132, fig. 41.
Carter, J. T. 1922 A, 604, 607.
Chapman, H. C. 1904, A, 150 (Notharctus, Limnotherium).
Chardin, T. 1922 A, 98.
Cope, E. D. 1872 OO, 2.
    1872 PP, 2 (Tomitherium, type *T. rostratum;* Notharctus).
Delafontaine, M. 1875 A, 171 (Notharctos).
Depéret, C. 1912 A, 707.
Gidley, J. W. 1919 A, 274.
    1923 A, 18, 25.
Granger, W. 1909 A, 22.
Granger and Gregory 1917 A, 841, 845 (Notharctus); 845 (Thinolestes, Tomitherium as syns.).
Gregory, W. K. 1913 A, 117.
    1913 C, 250.
    1914 A, 141.
    1914 F, 529.
    1915 A, 419, 421, 433 (Notharctus); 421, 433 (Telmalestes).
    1916 A, 242, fig. 3.
    1916 B, 262, 331.
    1917 A, 845 (Hipposyus a syn.).
    1917 D, 630.
    1920 A, 200, fig. 180.
    1921 A, 49-243, pls. xxvii, xxviii, liii, lvii; text-fig. 37.
    1922 A, 133, 216, 217, 513, 519, fig. 351.
    1927 A, 603 ("notharctids").
    1927 G, 268, 271, fig. 1.
    1927 I, 557, 559 ("notharctids").
Haug, E. 1911 A, 1528 (Notharctus, Telmatolestes).
Heilprin, A. 1887 A, 348 (Tomitherium); 403 (Limnotherium).
Loomis, F. B. 1905 C, 296.
    1906 A, 280.
    1911 C, 482.
Matthew, W. D. 1904 D, 814.
    1906 B, 361.
    1909 C, 95 (Telmatolestes); 100 (Telmalestes, Notharctus).
    1915 F, 434, 441.
    1924 E, 748.
    1928 B, 965, 975 (Notharctus); 975 (Telmalestes).
Morton, D. J. 1924 A, 25.
Osborn, H. F. 1901 D, 623.
    1902 C, 176, 191, 194, figs. 3, 20, 23 (Notharctus); 190 (Limnotherium).
    1907 G, 89, 160, figs. 43, 128, 132, 133, 214.
    1909 D, 46, 47.
    1910 B, 625, fig. 61.
    1912 G, 236, fig. 3.
    1924 A, 175.
    1925 C, 750.
Osborn, H. F. 1928 B, 193.
Ossenkopp, G. J. 1925 A, 483.
Palmer, T. S. 1904 A, 327, 901 (Hipposyus); 377, 901 (Limnotherium); 461, 901 (Notharctus); 667, 901 (Telmalestes); 674, 901 (Thinolestes); 682, 901 (Tomitherium).
Schlosser, M. 1898 D, 122 (Tomitherium).
    1902 D, 302 (Tomitherium).
    1911 A, 67.
    1921 A, 107.
Schuchert and Levene 1927 A, 335, fig.
Scott, W. B. 1913 A, 579.
Stehlin, H. G. 1912 A, 1288.
    1916 B, 1518.
Stromer, E. 1902 B, 555 (Tomitherium).
Thacker, A. G. 1922 A, 604.
Trouessart, E. L. 1904 A, 40.
Troxell, E. L. 1926 A, 423.
Wallace, A. R. 1876 A, I, 133 (Limnotherium).
Weber, M. 1904 A, 763.
Weber and Abel 1928 A, 741, 797, fig. 523.
Weber and Burlet 1927 A, 138.
Winge, H. 1924 A, 253, 259, 310.
Woodward, A. S. 1920 C, 465.
Wortman, J. L. 1901 C, 209.
    1903 A, xv, 410 (Notharctus, Limnotherium).
Zittel and Schlosser 1911 A, 547.
    1923 A, 639, 640, 647, 668.

Notharctus affinis (Marsh).

Hay, O. P. 1902 A, 788 (Tomitherium).
Granger and Gregory 1917 A, 850, pl. ciii, fig. 3; pl. cv, fig. 1.
Gregory, W. K. 1917 D, 631.
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1902 C, 172, 197 (Limnotherium = ? Notharctus).
Ossenkopp, G. J. 1925 A, 484.
Trouessart, E. L. 1904 A, 41.
    Middle Eocene (Bridger); Wyoming.

Notharctus anceps (Marsh).

Hay, O. P. 1902 A, 794 (Thinolestes).
Granger and Gregory 1917 A, 849, pl. civ, fig. 3; pl. cvi, figs. 2, 2*a*.
Gregory, W. K. 1917 D, 631.
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1902 C, 172, 197.
Ossenkopp, G. J. 1925 A, 484.
Trouessart, E. L. 1904 A, 41.
    Middle Eocene (Bridger); Wyoming.

Notharctus crassus (Marsh).

Hay, O. P. 1902 A, 793 (Telmalestes).
Granger and Gregory 1917 A, 841, 854; pl. ciii, fig. 9; pl. cv, fig. 6; pl. cvii, fig. 5.
Gregory, W. K. 1917 D, 630.
    1921 A, 133, 152, 164, pls. xxxv-xxxvii, xxxix, xli, xlii, lix; text-figs. 38, 40, 42, 48, 62.
    1922 A, 541, figs. 60, 61, 63, 66, 149.
Osborn, H. F. 1902 C, 172, 198.
Ossenkopp, G. J. 1925 A, 467, 485, figs. 1, 2.
Trouessart, E. L. 1904 A, 41.
    Middle Eocene (Bridger); Wyoming.

Notharctus formosus (Leidy).

Hay, O. P. 1902 A, 793 (Hipposyus).
Gregory, W. K. 1916 B, 262, fig. 1.
1917 D, 631.
Merrill, G. P. 1907 A, 39 (Hipposyus).
Osborn, H. F. 1902 C, 172, 198 (To Notharctus?).
Trouessart, E. L. 1904 A, 41.
Zittel and Schlosser 1923 A, 640, fig. 783.
Middle Eocene (Bridger); Wyoming.

Notharctus matthewi Granger and Gregory.

Granger and Gregory 1917 A, 847, pl. ciii, fig. 1; pl. civ, fig. 1; pl. cvi, fig. 1.
Ossenkopp, G. J. 1925 A, 484.
Troxell, E. L. 1926 A, 428 (Syn. of N. gracilis).
Middle Eocene (Bridger); Wyoming.

Notharctus nunienum (Cope).

Cope, E. D. 1881 D, 187 (Pelycodus).
Hay, O. P. 1902 A, 789 (Pelycodus frugivorus, in part).
Abel, O. 1913 B, 755 *b*, fig. 111 (N. nunienus).
Bolk, L. 1914 A, 132, fig. 42 (P. nuniensus).
Granger and Gregory 1917 A, 845 (N. nunienus).
Gregory, W. K. 1917 D, 631 (N. nunienus).
1921 A, 14, 185, pls. xxxv, xxxvi (N. nunienus).
1922 A, pl. vii (N. nunienus).
Loomis, F. B. 1906 A, 282, 285, fig. 5 (P. nuniensis).
Matthew, W. D. 1909 C, 92 (N. nunienus).
1915 E, 442, 444, fig. 19 (N. nunienus).
Osborn, H. F. 1902 C, 175, 191, 194, fig. 20 (Pelycodus nunienus); 195, fig. 20 (Notharctus nunienus).
Ossenkopp, G. J. 1925 A, 483 (N. nunienus).
Stehlin, H. G. 1916 B, 1476 (Pelycodus).
Trouessart, E. L. 1904 A, 40 (N. nunienus).
Weber and Abel 1928 A, 741, fig. 523 (N. nunienus).
Lower Eocene (Wind River); Wyoming.

Notharctus osborni Granger and Gregory.

Granger and Gregory 1917 A, 848, pl. ciii, fig. 2; pl. civ, fig. 2.
Gregory, W. K. 1919 B, 423, fig. 6.
1921 A, 61, 77, 169, pls. xxiii, xxv, xxix, xxx-xxxii, xxxiv-xxxvii, xxxix, xlii, xliv, xlv, xlix, liii, liv, lvi; text-figs. 1, 6, 8, 10, 12, 15-17, 22, 23, 26, 27, 30, 35, 40, 42, 49, 54, 56, 58, 78, 83, 84.
Gregory and Hellman 1926 A, pl. xxv, fig. 1.
Ossenkopp, G. J. 1925 A, 484.
Troxell, E. L. 1922 A, 542, pl. vi, fig. 3; text-figs. 56, 57, 59, 67, 150.
1926 A, 428.
1927 F, 386, fig.
1927 I, 551, fig. 2.
Weber and Abel 1928 A, 740, fig. 522.
Middle Eocene (Bridger); Wyoming.

Notharctus pugnax Granger and Gregory.

Granger and Gregory 1917 A, 853, pl. ciii, fig. 8; pl. cv, fig. 4.
Gregory, W. K. 1917 D, 631.
1921 A, 98, 126, 133, 146, pls. xxxv, xxxvi, xlii; text-figs. 21, 32, 43.
Ossenkopp, G. J. 1925 A, 485.
Middle Eocene (Bridger); Wyoming.

Notharctus relictus (Gregory).

Gregory, W. K. 1917 D, 630, 631 (Pelycodus).
1921 A, 61, pls. xxxv, xxxvi, xl (N. matthewi]).
Gregory and Granger 1917 A, 847, pl. ciii, fig. 1; pl. civ, fig. 1; pl. cvi, fig. 1 (N. matthewi).
Middle Eocene (Bridger); Wyoming.

Notharctus robustior (Leidy).

Hay, O. P. 1902 A, 793 (Hipposyus).
Cope, E. D. 1872 PP, 3.
Merrill, G. P. 1907 A, 39 (Hipposyus); 50 (Notharctus).
Osborn, H. F. 1902 C, 172.
Trouessart, E. L. 1904 A, 41.
Middle Eocene (Bridger); Wyoming.

Notharctus rostratus Cope.

Cope, E. D. 1872 PP, 2 (Tomitherium).
Hay, O. P. 1902 A, 788 (Tomitherium).
Gregory, W. K. 1914 F, 529.
1917 D, 631.
1921 A, 56 (Tomitherium).
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1902 C, 173, 197.
Trouessart, E. L. 1904 A, 41.
Middle Eocene (Bridger); Wyoming.

Notharctus tenebrosus Leidy.

Hay, O. P. 1902 A, 789.
Cope, E. D. 1872 PP, 3.
Granger and Gregory 1917 A, 851, pl. ciii, figs. 6, 7; pl. cv, figs. 2, 3.
Gregory, W. K. 1917 D, 631.
1921 A, 56, 77, 93, 94, 96, 156, pls. xxxvi, xlii, text-figs. 19, 51.
Matthew, W. D. 1909 C. 95.
Merrill, G. P. 1907 A, 50.
Osborn, H. F. 1902 C, 172, 196.
Ossenkopp, G. J. 1925 A, 484.
Trouessart, E. L. 1904 A, 41.
Wortman, J. L. 1901 C, 209.
Middle Eocene (Bridger); Wyoming.

Notharctus tyrannus (Marsh).

Hay, O. P. 1902 A, 789 (Limnotherium).
Cope, E. D. 1872 PP, 3.
Granger and Gregory 1917 A, 851, pl. cviii, fig. 4; pl. civ, fig. 6.
Gregory, W. K. 1917 D, 631.
1921 A, 80, 94, pl. xxiv, xxix, xxx, xxxiv, xlii, text-fig. 11.
1922 A, 133, figs. 64, 65.
1927 I, 555, fig. 7.
Matthew, W. D. 1909 C, 95.

Osborn, H. F. 1902 C, 172 (Limnotherium); 197 (Notharctus).
Ossenkopp, G. J. 1925 A, 484.
Trouessart, E. L. 1904 A, 41.
Troxell, E. L. 1926 A, 428.
Middle Eocene (Bridger); Wyoming.

Notharctus uintensis (Osborn).

Hay, O. P. 1902 A, 791 (Microsyops).
Granger and Gregory 1917 A, 856.
Gregory, W. K. 1922 A, 280 (This genus?).
Matthew, W. D. 1909 C, 98.
Osborn, H. F. 1902 C, 175, 202, fig. 27 ("Microsyops"?).
Ossenkopp, G. J. 1925 A, 485 (Notharctus); 494 (Omomys).
Schlosser, M. 1905 A, 334 (Omomys).
Trouessart, E. L. 1904 A, 40 (Anaptomorphus).
Wortman, J. L. 1904 A, 134 (Omomys).
Upper Eocene (Uinta); Utah; Middle (Bridger); Wyoming.

Notharctus venticolus Osborn.

Osborn, H. F. 1902 C, 175, 195.
Granger and Gregory 1917 A, 846.
Gregory, W. K. 1917 D, 631.
1921 A, 125, 133, 139, 147, 156, 199, pl. xxxv, xxxvi; text-figs. 31, 40, 45, 52, 74, 76.
1922 A, 123, fig. 58.
Loomis, F. B. 1906 A, 284.
Matthew, W. D. 1909 C, 92.
1915 F, 442 (Pelycodus); 443, figs. 16-18 (Notharctus).
Ossenkopp, G. J. 1925 A, 483.
Stehlin, H. G. 1916 B, 1544.
Trouessart, E. L. 1904 A, 41.
Lower Eocene (Wind River); Wyoming.

Notharctus sp. indet.

Granger and Gregory 1917 A, 846. Eocene (Huerfano); Colorado.
Matthew, W. D. 1909 C, 95. Middle Eocene (Bridger); Wyoming.
Ossenkopp, G. J. 1925 A, 484. Eocene; Colorado.

APHANOLEMUR Granger and Gregory. Type *A. gibbosus* Granger and Gregory.

Granger and Gregory 1917 A, 856.
Black, D. 1925 A, table.
Ossenkopp, G. J. 1925 A, 485.
Zittel and Schlosser 1923 A, 640.

Aphanolemur gibbosus Granger and Gregory.

Granger and Gregory 1917 A, 856.
Gregory, W. K. 1922 A, 221, fig. 152.
Ossenkopp, G. J. 1925 A, 485.
Middle Eocene (Lower Bridger); Wyoming.

SMILODECTES Wortman. Type *Hyopsodus gracilis* Marsh.

Wortman, J. L. 1903 A, xvi, 362.
Hubrecht, A. A. W. 1908 A, 161.
Matthew, W. D. 1909 C, 100.
Ossenkopp, G. J. 1925 A, 498.
Palmer, T. S. 1904 A, 635, 851.
Schlosser, M. 1905 A, 328, 332.
Troxell, E. L. 1926 A, 423, 428 (Syn. of Notharctus).
Wortman, J. L. 1903 A, xv, 401 (Name only).
Zittel and Schlosser 1911 A, 370.
1923 A, 449.

A genus of uncertain position; a synonym of *Notharctus* according to Troxell.

Smilodectes gracilis (Marsh).

Hay, O. P. 1902 A, 790 (Hyopsodus).
Matthew, W. D. 1909 C, 95 (Smilodectes); 99 (Hyopsodus).
Osborn, H. F. 1902 C, 172 (To Sarcolemur); 198 (Notharctus).
Ossenkopp, G. J. 1925 A, 498.
Schlosser, M. 1905 A, 332.
Trouessart, E. L. 1904 A, 41 (Northarctus).
Troxell, E. L. 1926 A, 423, figs. 1-3 (Notharctus).
Wortman, J. L. 1903 A, xvi, 362, fig. 118.
Upper Eocene (Uinta); Utah.

PROSINOPA Trouessart. Type *Sinopa eximia* Leidy.

Hay, O. P. 1902 A, 788.

Prosinopa eximia (Leidy).

Hay, O. P. 1902 A, 788.
Osborn, H. F. 1902 C, 190, fig. 18 (Sinopa).
Trouessart, E. L. 1904 A, 41.
Middle Eocene (Bridger); Wyoming.

Superfamily TARSIOIDÆ, new name.

Abel, O. 1908 C, (36) (Palæopithecinæ).
Gidley, J. W. 1922 A, 269 (Tarsioidea).
Gregory, W. K. 1915 A, 437 (Tarsiformes, as "series").
1922 A, 546 (Tarsioidea).
1927 I, 549 ("tarsioids").
Henckel, K. O. 1927 A, 367 (Tarsioidea).
Ossenkopp, G. J. 1925 A, 468, 493 (Tarsioidea).
Schlosser, M. 1907 C, 222 (Palæopithecinæ).
1911 A, 1540 ("palæopithecini").
Smith, G. E. 1920 A, 465 (Tarsioidea).
Stehlin, H. G. 1916 B, 1541 (Tarsiformes); 1540 (Palæopithecini).
Weber and Abel 1928 A, 716, 746, 753, 896 (Tarsioidea).
Weber and Burlet 1927 A, xv (Tarsioidea).
Winge, H. 1924 A, 253, 254 (Tarsiidæ).
Wortman, J. L. 190 A, xv, 411 (Palæopithecinæ).
1904 A, 25 (Palæopithecinæ).

TARSIIDÆ Burnett.

Unless otherwise indicated the authors, as quoted, employ for this family the name Anaptomorphidæ.

Burnett, G. T. 1828 A, 307 (Tarsidæ).
Abel, O. 1908 C (36).
  1913 B, 755b, 756.
  1914 A, 255, 257.
  1919 A, 875.
Ameghino, F. 1889 A, 893.
Arldt, T. 1907 D, 637.
  1907 E, 208 ("anaptomorphiden").
  1912 A, 698.
Beddard, F. E. 1902 A, 550 (Tarsiidæ); 552 (Anaptomorphidæ).
Bluntschli, H. 1911 A, 122 (Tarsiidæ).
Brown, A. E. 1901 A, 123.
Carter, J. T. 1922 A, 607, pl. iii, fig. 1; pl. iv, fig. 1 (Tarsius).
Cope, E. D. 1883 I, 80.
Cunningham, J. T. 1920 A, 495 (Tarsius).
Depéret, C. 1907 B ("anaptomorphidés").
  1912 A, 707 ("anaptomorphidés").
Earle, C. 1897 A, 569 (Tarsius).
Elliot, S. G. 1921 A, 185, pl. i (Tarsiidæ, Tarsioidea).
Fischer, E. 1905 B, 397 (Tarsius).
Gidley, J. W. 1923 A, 3, 22.
Gregory, W. K. 1914 F, 529 (Anaptomorphidæ, Tarsiidæ).
  1915 A, 426, 438 (Tarsiidæ).
  1916 B, 267 (Tarsiidæ).
  1920 A, 204 (Tarsiidæ).
  1921 A, 221 (Tarsiidæ).
  1922 A, 112, 546.
Gregory and Hellman 1926 A, 12.
Hill, J. P. 1920 A, 476 (Tarsiius).
Hrdlička, A. 1924 A, 126 (Tarsii).
Hubrecht, A. A. W. 1897 A, 6, figs. 1, 2, 4-6 (Tarsius).
Kingsley, J. S. 1925 A, 219, figs. 231, 272, 323.
Leche, W. 1900 A, 1025, fig. 103 (Tarsius).
Loomis, F. B. 1906 A, 277.
  1911 C, 481.
MacBride, E. W. 1920 A, 497 (Tarsius).
Matthew, W. D. 1906 B, 361.
  1909 C, 93, 95, 100.
  1909 D, 298, 549.
  1914 B, 387.
  1915 A, 215.
  1915 F, 445, 447 (Tarsiidæ).
  1915 K, 44.
  1921 D, 214.
  1928 B, 957 ("tarsioid primates").
Mitchell, P. C. 1920 A, 496 (Tarsius).
Mivart, St. G. 1874 B, 69, 81, 83.
Morton, D. J. 1924 A, 24 (Tarsius).
Osborn, H. F. 1901 D, 623.
  1902 C, 176, 199.
  1905 I, 101.
  1909 D, 46, 52.
  1910 B, 161, 543.
Palacký, J. 1899 A, 1 (Tarsiidæ).
Palmer, T. S. 1905 A, 890 (Anaptomorphidæ); 903 (Tarsiidæ).
Pia, J. 1916 A, 128 ("tarsier").
Pocock, R. I. 1920 A, 494 (Tarsius).
Schlosser, M. 1905 A, 333.
  1907 C, 215, 222.
Scott, W. B. 1913 A, 578.
Simpson, G. G. 1928 A, 9.
Smith, G. E. 1920 A, 465 (Tarsius).
Stehlin, H. 1912 A, 1286 ("anaptomorphiden").
  1916 B, 1389 ("tarsiiden"); 1540 (Anaptomorphidæ).
Terra, P. 1911 A, 346.
Thacker, A. G. 1922 A, 604 (Anaptomorphidæ).
Todd, T. W. 1922 A, 273.
Weber, M. 1904 A, 763.
Winge, H. 1924 A, 253, 259 (Tarsiini).
Wood-Jones, F. 1920 A, 491 (Tarsius).
Woodward, A. S. 1920 C, 465 (Tarsius).
Wortman, J. L. 1903 A, xv, 411.
  1904 A, 29.
Wright, R. R. 1883 A, 489, fig. 228.
Zittel and Schlosser 1911 A, 548.

ANAPTOMORPHINÆ.

Abel, O. 1908 C (36).
  1922 C, 294 ("anaptomorphiden").
Black, D. 1925 A, 143 (Anaptomorphidæ).
Gregory, W. K. 1914 F, 529.
  1927 I, 557, 559 ("anaptomorphs").
Gregory and Hellman 1926 A, 103.
Pia, J. 1916 A, 129 ("anaptomorphiden").
Schlosser, M. 1905 A, 335.
  1907 C, 215, 222.
  1911 A, 61.
Stehlin, H. G. 1916 B, 1540.
Wortman, J. L. 1904 A, 29, 208.
Zittel and Schlosser 1923 A, 644, 666, 667.

CARPODAPTES Matthew and Granger. Type *C. aulacodon* Matthew and Granger.

Matthew and Granger 1921 A, 6.
Simpson, G. G. 1928 A, 8.
  1928 D, 301.
A genus of uncertain position.

Carpodaptes aulacodon Matthew and Granger.

Matthew and Granger 1921 A, 6.
Reeside, J. B. 1924 A, 47.
Paleocene (Tiffany); Colorado.

CARPOLESTES Simpson. Type *C. nigridens* Simpson.

Simpson, G. G. 1928 A, 7.
  1928 D, 301.

Carpolestes nigridens Simpson.

Simpson, G. G. 1928 A, 7, fig. 5.
Upper Cretaceous (Fort Union); Montana.

OMOMYS Leidy. Type *O. carteri* Leidy.

Hay, O. P. 1902 A, 788 (Omomys); 794 (Palæacodon).
Adloff, P. 1927 A, 443, fig. 7.
Black, D. 1925 A, table.
Bluntschli, H. 1911 A, 122.
  1912 B, 357.
Chardin, P. T. 1924 A, 13.
  1927 A, 16, pls iii, iv; text-figs. 12-14.
Dollo and Chardin 1924 A, 13, 14.
Gidley, J. W. 1923 A, 9, 21.
Gregory, W. K. 1915 A, 438.
  1916 A, 244, pls. I, O; text-fig. 10.
  1918 A, 8.
  1921 A, 219.
  1922 A, 188, 190, 514.
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 348 (Palæacodon).
Matthew, W. D. 1909 C, 100.
  1915 F, 447, 448, figs. 20, 21.
  1918 H, 567.
  1928 B, 966, 976, fig. 14.
Ossenkopp, G. J. 1925 A, 494, 495, 502.
Palmer, T. S. 1904 A, 476, 901 (Omomys); 497, 851 (Palæacodon).
Pia, J. 1916 A, 129.
Schlosser, M. 1905 A, 333.
  1907 C, 216.
  1911 A.
Stehlin, H. G. 1916 B, 1388, 1404, 1539.
Troxell, E. L. 1926 A, 426.
Weber, M. 1904 A, 763 (Palæacodon).
Weber and Abel 1928 A, xxi, 754, 758.
Wortman, J. L. 1903 A, xv, 408.
  1904 A, 27, 29, 211.
Zittel and Schlosser 1911 A, 548.
  1923 A, 645, 666.

Omomys ameghini Wortman.

Wortman, J. L. 1904 A, 134; fig. 127.
Matthew, W. D. 1909 C, 95.
Ossenkopp, G. J. 1925 A, 494.
Schlosser, M. 1905 A, 334 (O. ameghinoi).
Stehlin, H. G. 1916 B, 1411.
  Middle Eocene (Bridger); Wyoming.

Omomys carteri Leidy.

Hay, O. P. 1902 A, 788 (O. carteri); 787 (Antiacodon nanus).
Gregory, W. K. 1921 A, 55.
Hayden, F. V. 1871 A, 145.
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1902 C, 172, 173, 190, 200, fig. 19
Ossenkopp, G. J. 1925 A, 494.
Schlosser, M. 1905 A, 333.
  1907 C, 216.
Stehlin, H. G. 1916 B, 1410.
Wortman, J. L. 1904 A, 30, figs. 120-122.
  Middle Eocene (Bridger); Wyoming.

Omomys minutus (Loomis).

Loomis, F. B. 1906 A, 283-285, fig. 6 (Notharctus).
Matthew, W. D. 1909 C, 93 (Omomys?).
  1915 F, 442, 449.
Ossenkopp, G. J. 1925 A, 495.
Stehlin, H. G. 1916 B, 1544.
  Lower Eocene (Wind River); Wyoming.

Omomys pucillus (Marsh).

Hay, O. P. 1902 A, 794 (Hemiacodon).
Matthew, W. D. 1909 C, 95.
Osborn, H. F. 1902 C, 173, 190.
Ossenkopp, G. J. 1925 A, 494.
Schlosser, M. 1905 A, 333 (O. pusillus).
Stehlin, H. G. 1916 B, 1410.
Wortman, J. L. 1904 A, 133; figs. 124-126.
  Middle Eocene (Bridger); Wyoming.

Omomys vagus (Marsh).

Hay, O. P. 1902 A, 794 (Palæacodon).
Matthew, W. D. 1909 D, 298 (Syn. of O. carteri).
Osborn, H. F. 1902 C, 173, 200 (Omomys?).
Trouessart, E. L. 1904 A, 291 (Palæacodon).
Wortman, J. L. 1904 A, 30, 33, fig. 123 (Syn. of O. carteri).
  Middle Eocene (Bridger); Wyoming.

Omomys vespertinus Matthew.

Matthew, W. D. 1915 F, 450; figs. 22, 23 (This genus?).
Ossenkopp, G. J. 1925 A, 495.
Stehlin, H. G. 1916 B, 1410.
  Lower Eocene (Wasatch); New Mexico, Wyoming.

Omomys sp. indet.

Gregory, W. K. 1922 A, 187. Eocene (Bridger); Wyoming.

HEMIACODON Marsh. Type *H. gracilis* Marsh.

Hay, O. P. 1902 A, 794.
Black, D. 1925 A, table.
Bluntschli, H. 1911 A, 122.
  1912 B, 357.
Carter, J. T. 1922 A, 604, 607, pl. vi, fig. 1.
Gidley, J. W. 1917 B, 59.
  1923 A, 9.
Granger, W. 1909 A, 22.
Granger and Gregory 1917 A, 827, 856.
Gregory, W. K. 1915 A, 426, 438.
  1922 A, 537.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 100.
  1915 F, 447, 451.
Matthew, W. D. 1918 H, 567.
Osborn, H. F. 1910 B, 543.
Ossenkopp, G. J. 1925 A, 495, 501, 502.
Palmer, T. S. 1904 A, 316, 890.
Schlosser, M. 1905 A, 329, 333.
  1907 C, 216.
  1911 A.
Scott, W. B. 1913 A, 578.
Stehlin, H. G. 1916 B, 1388, 1431, 1536, 1539.
Weber and Abel 1928 A, 754, 758.
Wortman, J. L. 1903 A, xv, 408.
  1904 A, 27, 29, 211.
Zittel and Schlosser 1911 A, 548.
  1923 A, 645 (Syn. of Omomys).

Hemiacodon gracilis Marsh.

Hay, O. P. 1902 A, 794.
Gregory, W. K. 1922 A, 190, figs. 113, 114.
Matthew, W. D. 1909 C, 95.
  1915 F, 452, fig. 24.
Osborn, H. F. 1902 C, 173, 190 (To Omomys).
Ossenkopp, G. J. 1925 A, 495.
Schlosser, M. 1905 A, 334.
Wortman, J. L. 1903 A, xv, 408.
  1904 A, 135, figs. 128-131.
  Middle Eocene (Bridger); Wyoming.

Hemiacodon pygmæus Wortman.

Wortman, J. L. 1904 A, 138, fig. 132.
Matthew, W. D. 1909 C, 95.
Ossenkopp, G. J. 1925 A, 495.
Schlosser, M. 1905 A, 334.
  Middle Eocene (Bridger); Wyoming.

Hemiacodon sp. indet.

Gidley, J. W. 1918 B, 59. Lower Eocene (Wasatch); Colorado.
Reeside, J. B. 1924 A, 46. Lower Eocene (Wasatch); Colorado.

UINTANIUS Matthew. Type *U. turriculorum* Matthew.

Matthew, W. D. 1915 F, 448, 455.
Gregory, W. K. 1915 A, 438.
  1922 A, 198.
Ossenkopp, G. J. 1925 A, 495, 502.
Simpson, G. G. 1928 A, 10.
Stehlin, H. G. 1916 B, 1387, 1404, 1432.
Weber and Abel 1928 A, 751, 754, 759.
Zittel and Schlosser 1923 A, 645.

Uintanius turriculorum Matthew.

Matthew, W. D. 1915 F, 455, 456, figs, 27, 28.
Gregory, W. K. 1922 A, 199, fig. 125.
Ossenkopp, G. J. 1925 A, 495.
Stehlin, H. G. 1916 B, 1544.
  Middle Eocene (Bridger); Wyoming.

WASHAKIUS Leidy. Type *W. insignis* Leidy.

Leidy, J. 1873 B, 123.
Hay, O. P. 1902 A, 787 (Anaptomorphus, in part).
Black, D. 1925 A, table.
Bluntschli, H. 1912 B, 370.
Gidley, J. W. 1923 A, 21.
Gregory, W. K. 1915 A, 438.
  1921 A, 220.
  1922 A, 192.
Haug, E. 1911 A, 1528.
Matthew, W. D. 1909 C, 100.
  1915 F, 453.
Osborn, H. F. 1910 B, 130, 134, 543.
Ossenkopp, G. J. 1925 A, 495, 502.
Palmer, T. S. 1904 A, 709, 890.
Schlosser, M. 1905 A, 329, 335.
  1907 C, 215, 217.
  1911 A, 58.
Stehlin, H. G. 1916 B, 1320, 1388, 1395, 1432, 1536, 1539.
Wallace, A. R. 1876 A, I, 134.
Weber, M. 1904 A, 763.
Weber and Abel 1928 A, 754, 758.
Winge, H. 1924 A, 288.
Wortman. J. L. 1903 A, xv, 408.
  1904 A, 28, 208.
Zittel and Schlosser 1911 A, 549.
  1923 A, 645.

Washakius insignis Leidy.

Hay, O. P. 1902 A, 787 (Anaptomorphus).
Bluntschli, H. 1912 B, 369, fig. 11.
Gregory, W. K. 1922 A, 193, figs. 115, 116.
Matthew, W. D. 1909 C, 95.
  1915 F, 453, fig. 25.
Osborn, H. F. 1902 C, 173, 200, fig. 23a.
Ossenkopp, G. J. 1925 A, 495.
Schlosser, M. 1905 A, 335.
Stehlin, H. G. 1916 B, 1395.
Trouessart, E. L. 1904 A, 40 (Anaptomorphus).
Wortman, J. L. 1904 A, 208, figs. 142-146.
  Middle Eocene (Bridger); Wyoming.

SHOSHONIUS Granger. Type *S. cooperi* Granger.

Granger, W. 1910 A, 249.
Black, D. 1925 A, table.
Gregory, W. K. 1915 A, 438.
Matthew, W. D. 1915 F, 454.
  1928 B, 976, fig. 14.
Osborn, H. F. 1912 G, 236, fig. 3.
Ossenkopp, G. J. 1925 A, 496, 502.
Stehlin, H. G. 1916 B, 1320, 1431, 1536, 1539.
Zittel and Schlosser 1923 A, 645.

Shoshonius cooperi Granger.

Granger, W. 1910 A, 249, fig. 5.
Gregory, W. K. 1922 A, 194, fig. 117.
Matthew, W. D. 1915 F, 454, fig. 26.
Ossenkopp, G. J. 1925 A, 496.
Stehlin, H. G. 1916 B, 1544.
Weber and Abel 1928 A, 754, fig. 531.
  Lower Eocene (Wind River); Wyoming.

ANAPTOMORPHUS Cope. Type *A. æmulus* Cope.

Cope, E. D. 1872 TT, 1.
Hay, O. P. 1902 A, 787.
Abel, O. 1908 C, (37).
  1913 B, 756.
  1914 A, 257, 258.
Adloff, P. 1903 A, 362, fig. 4.
Ameghino, F. 1906 A, 423.
Beddard, F. E. 1902 A, 552.
Black, D. 1925 A, table.
Bluntschli, H. 1912 A, 134.
Case, E. C. 1899 B, 183.
Chapman, H. C. 1904 A, 150, 153.
Cope, E. D. 1880 U, 153.
Earle, C. 1897 A, 682.
  1897 B, 309.
Gregory, W. K. 1912 C, 195.

Gregory, W. K. 1913 C, 252.
1915 A, 426, 438.
1916 A, 252.
1922 A, 531.
1927 A, 603 ("anaptomorphids").
Haug, E. 1911 A, 1528.
Heilprin, A. 1887 A, 349, 403.
Hubrecht, A. A. W. 1897 A, 6, 7.
1908 A, 160.
Loomis, F. B. 1905 C, 296.
1906 A, 277.
1911 C, 479.
Matthew, W. D. 1909 C, 100.
1915 F, 456.
1915 K, 420.
1916 I, 109.
Osborn, H. F. 1902 C, 200.
1902 D, 265, fig. 4.
1907 G, 89, 158; figs. 38, 40, 43, 127, 129, 130, 213.
1910 B, 127, 134, 543.
1912 G, 236, fig. 3.
Ossenkopp, G. J. 1925 A, 496.
Palacký, J. 1899 A, 1 (Anaptomorfus).
1902 B, 151.
Palmer, T. S. 1904 A, 100, 890.
Schlosser, M. 1898 B, 363.
1905 A, 329, 335.
1907 C, 215.
1911 A.
Scott, W. B. 1913 A, 281, 581, 675.
Seeley, H. G. 1886 A, 417.
Smith, G. E. 1920 A, 470.
Stehlin, H. G. 1916 B, 1384, 1388.
Thompson, A. H. 1900 A, 921.
1906 A, 262.
Weber, M. 1904 A, 763.
Weber and Abel 1928 A, 753, 759.
Winge, H. 1924 A, 253, 258, 310, 312.
Woodward, A. S. 1920 C, 465.
Wortman, J. L. 1903 A, xv, 407.
1904 A, 28, 140, 208.
Zittel and Schlosser 1911 A, 548.
1923 A, 645.

Anaptomorphus æmulus Cope.

Cope, E. D. 1872 TT, 1.
Hay, O. P. 1902 A, 787.
Bluntschli, H. 1911 A, 134.
Gregory, W. K. 1921 A, 56.
Loomis, F. B. 1906 A, 277.
Matthew, W. D. 1909 C, 95.
1915 F, 457, fig. 29.
Osborn, H. F. 1902 C, 173, 177, 202, figs. 4, 26.
Ossenkopp, G. J. 1925 A, 496.
Schlosser, M. 1905 A, 335.
1911 A.
Seeley, H. G. 1886 A, 417, fig.
Stehlin, H. G. 1916 B, 1384.
Trouessart, E. L. 1904 A, 39.
Wortman, J. L. 1904 A, 140, 211.
Middle Eocene (Bridger); Wyoming.

Anaptomorphus minimus Loomis.

Loomis, F. B. 1906 A, 278, 279, fig. 1.
1907 B, 356 (Anaptomorpha).
Matthew, W. D. 1909 C, 93.
Lower Eocene (Wasatch); Wyoming.

Euryacodon Marsh. Type *E. lepidus* Marsh.

Hay, O. P. 1902 A, 741.
Matthew, W. D. 1909 C, 100.
1915 F, 457.
Palmer, T. S. 1904 A, 279, 871.
Schlosser, M. 1905 A, 333.
1907 C, 216.
1911 A, 66.
Stehlin, H. G. 1916 B, 1388, 1421, 1431 ("=Anaptomorphus?").
Weber and Abel 1928 A, 755.
Wortman, J. L. 1903 A, xv, 407.
1904 A, 27, 29.
Zittel and Schlosser 1923 A, 645 (Syn. of Omomys).

Euryacodon lepidus Marsh.

Hay, O. P. 1902 A, 741.
Matthew, W. D. 1909 C, 95.
Schlosser, M. 1905 A, 334.
1911 A, 70.
Ossenkopp, G. J. 1925 A, 496.
Wortman, J. L. 1904 A, 139, figs. 133, 134.
Middle Eocene (Bridger); Wyoming.

Palæchthon Gidley. Type *P. alticuspis* Gidley.

Gidley, J. W. 1923 A, 6.
Simpson, G. G. 1927 B, 5.
Weber and Abel 1928 A, 759.

Palæchthon alticuspis Gidley.

Gidley, J. W. 1923 A, 6, pl. i, fig. 1.
Ossenkopp, G. J. 1925 A, 498.
Paleocene (Fort Union); Montana.

Palæchthon minor Gidley.

Gidley, J. W. 1923 A, 7, 11, pl. iv, fig. 1.
Ossenkopp, G. J. 1925 A, 498.
Paleocene (Fort Union); Montana.

Absarokius Matthew. Type *Anaptomorphus abbotti* Loomis.

Matthew, W. D. 1915 F, 463.
Black, D. 1925 A, table.
Ossenkopp, G. J. 1925 A, 496, 502.
Simpson, G. G. 1928 A, 10.
Stehlin, H. G. 1916 B, 1386, 1404, 1431.
Zittel and Schlosser 1923 A, 645.

Absarokius abbotti (Loomis).

Loomis, F. B. 1906 A, 278, 279, fig. 2 (Anaptomorphus).
Matthew, W. D. 1909 C, 93 (Anaptomorphus).
1915 F, 463, fig. 35.
Ossenkopp, G. J. 1925 A, 496.

Stehlin, H. G. 1916 B, 1386, 1544.
Zittel and Schlosser 1923 A, 645.
Lower Eocene (Wind River); Wyoming.

Absarokius noctivagus Matthew.

Matthew, W. D. 1915 F, 465, figs. 36, 37.
Stehlin, H. G. 1916 B, 1386, 1544.
Lower Eocene (Wind River); Wyoming.

PAROMOMYS Gidley. Type *P. maturus* Gidley.

Gidley, J. W. 1923 A, 3, 10.
Ossenkopp, G. J. 1925 A, 497.
Simpson, G. G. 1927 B, 5.
Weber and Abel 1928 A, 759.

Paromomys depressidens Gidley.

Gidley, J. W. 1923 A, 4, pl. iii, fig. 7; text-fig. 3.
Ossenkopp, G. J. 1925 A, 498.
Paleocene (Fort Union); Montana.

Paromomys maturus Gidley.

Gidley, J. W. 1923 A, 3, pl. i, fig. 3; pl. ii, figs. 2, 3; text-figs. 1, 2.
Ossenkopp, G. J. 1925 A, 497.
Paleocene (Fort Union); Montana.

TETONIUS Matthew. Type *Anaptomorphus homunculus* Cope.

Matthew, W. D. 1915 F, 457.
Black, D. 1925 A, table.
Granger and Gregory 1917 A, 857.
Gregory, W. K. 1915 A, 438.
1920 A, 204, fig. 191.
1921 A, 197.
1922 A, 547.
Matthew, W. D. 1918 H, 566.
1928 B, 966, 976, fig. 14.
Ossenkopp, G. J. 1925 A, 496.
Simpson, G. G. 1928 A, 10.
Stehlin, H. G. 1916 B 1404, 1431, 1506, 1536.
Weber and Abel 1928 A, 753, 754, 759.
Winge, H. 1924 A, 257.
Zittel and Schlosser 1923 A, 644, 666.

Tetonius ambiguus Matthew.

Matthew, W. D. 1915 F, 462, fig. 32.
Ossenkopp, G. J. 1925 A, 497.
Stehlin, H. G. 1916 B, 1544.
Lower Eocene (Wasatch); Wyoming.

Tetonius homunculus (Cope).

Unless otherwise indicated the authors, as quoted, use the generic name *Anaptomorphus*.

Hay, O. P. 1902 A, 787.
Abel, O. 1913 B, 756, figs. 112, 113.
1914 A, 259, figs. 235, 236.
1922 C, 294, fig. 248.
Bluntschli, H. 1912 B, 369, fig. 12.
Boule, M. 1923 A, 78, 80, 454.
Cope, E. D. 1885 EE, 609, fig. 2.
Gregory, W. K. 1915 A, 430.
1921 A, pl. li (Tetonius).
Gregory, W. K. 1922 A, 187, figs. 118, 119, 121, 123.
Henckel, K. O. 1927 A, 366.
Hubrecht, A. A. W. 1897 A, 6, fig. 3.
Loomis, F. B. 1906 A, 277, 278, 279.
Matthew, W D. 1909 C, 93, 459.
1915 F, 457, 459, figs. 30, 31.
Osborn, H. F. 1902 C, 175, 200, figs. 24, 25.
Ossenkopp, G. J. 1925 A, 496.
Schlosser, M. 1911 A.
Scott, W. B. 1913 A, 581, fig. 285.
Seeley, H. G. 1886 A, 417, fig.
Stehlin, H. G. 1916 B, 1384.
Trouessart, E. L. 1904 A, 40.
Weber, M. 1904 A, 763, fig. 547.
Weber and Abel 1928 A, 753, fig. 532.
Wortman, J. L. 1903 A, xv, 407 (Anaptomorphus or Euryacodon).
1904 A, 23, 212.
Zittel and Schlosser 1911 A, 548, fig. 742 (Anaptomorphus).
1923 A, 644, fig. 787.
Lower Eocene (Wasatch); Wyoming.

Tetonius musculus Matthew.

Matthew, W. D. 1915 F, 463, figs. 33, 34.
Gregory, W. K. 1922 A, 187.
Ossenkopp, G. J. 1925 A, 497.
Stehlin, H. G. 1916 B, 1386, 1544.
Lower Eocene (Wind River); Wyoming.

Tetonius rex Gidley.

Gidley, J. W. 1925 A, 11, pl. iii, fig. 4.
Ossenkopp, G. J. 1925 A, 497.
Paleocene (Fort Union); Montana.

ELPHIDOTARSIUS Gidley. Type *E. florencæ* Gidley.

Gidley, J. W. 1923 A, 10, 22.
Simpson, G. G. 1928 A, 10.
Weber and Abel 1928 A, 759.

Elphidotarsius florencæ Gidley.

Gidley, J. W. 1923 A, 10, pl. iv, fig. 2.
Ossenkopp, G. J. 1925 A, 497.
Paleocene (Fort Union); Montana.

NAVAJOVIUS Matthew and Granger. Type *N. kohlhaasæ* Matthew and Granger.

Matthew and Granger 1921 A, 5.
Black, D. 1925 A, table.
Ossenkopp, G. J. 1925 A, 498.
Zittel and Schlosser 1923 A, 645.

Navajovius kohlhaasæ Matthew and Granger.

Matthew and Granger 1921 A, 5.
Ossenkopp, G. J. 1925 A, 498.
Reeside, J. B. 1924 A, 47.
Paleocene (Tiffany); Colorado.

Suborder ANTHROPIFORMES, new name.

Abel, O. 1919 A, 877 (Anthropoidea).
1920 A, 453 (Anthropoidea).
Adloff, P. 1927 A, 431 ("anthropoiden").
Appleton, A. B. 1922 A, 295 ("chimpanzee," etc.).
Arldt, T. 1907 D, 144, 609 (Anthropomorpha).
Beyer, H. 1908 A, 88 ("affen").
Bolk, L. 1922 A, 119 (Anthropoidæ).
1923 A, 16 ("anthropoids").
Boule, M. 1923 A, 487 ("anthropoid apes").
Carus and Engelmann 1861 A, 1303, 1687, 1793 (Quadrumana, in part).
Clark and Sonntag 1926 A, 461 (Anthropoidea).
Cope, E. D. 1891 N, 79, 90 (Anthropomorpha).
Cunningham, J. T. 1920 A, 496 ("apes").
Earle, C. 1897 A, 685 ("apes").
Eggeling, H. 1922 A, 50 ("menschenaffen").
Falconer, H. 1868 A, 307 (Quadrumana).
Falconer and Cautley 1868 A, 300 (Quadrumana).
Fischer, J. B. 1829 A, 8 (Quadrumana).
Gill, T. 1872 A, 296 (Anthropoidea).
1872 B, 1 (Anthropoidea).
Gregory, W. K. 1922 A, 531 (Anthropoidea).
1924 B, 421 ("gorilla").
1927 A, 602 ("anthropoids").
1927 F, 297 ("anthropoid apes").
1927 I, 549, 560 ("anthropoids").
1927 J, 440, 445, 455 ("anthropoids").
Hill, J. P. 1920 A, 479 ("anthropoids").
Hrdlička, A. 1920 A, 461 ("apes").
Kaempfert, W. 1927 A, 8.
Kunstler and Chaine 1906 A, 100 ("singes").
Lankester, E. R. 1924 A, 10 ("gorilla").
Leche, W. 1900 A, 1035 ("anthropomorphen").
Lydekker, R. 1885 B, 1 (Anthropoidea).
MacBride, E. W. 1920 A, 498 ("apes").
Major, C. J. F. 1872 A, 160 (Anthropomorpha).
1880 A, 42 ("platyrhinen," "catarhinen").
Mivart, St. G. 1874 B, 9, 69, 83 (Anthropoidea).
Osborn, H. F. 1910 B, 544 (Anthropoidea).
1922 D, 721, 722 (Anthropoidea).
1925 B, 18 (Anthropoidea).
1927 A ("anthropoid apes").
1928 B, 192 (Anthropoidea).
Ossenkopp, G. J. 1925 A, 469 (Anthropoidea).
Owen, R. 1859 C, 8 ("anthropoid apes").
1866 B, 511-553 (Quadrumana).
1868 A, 313-322 (Quadrumana).
Perrier, E. 1920 A, 372 ("singes").
Pilgrim, G. E. 1915 A, 54 (Anthropoidea).
Remane, A. 1921 A, 335 ("anthropoiden").
1922 A ("anthropoiden").
Reynolds, S. H. 1897 A, 532 (Anthropoidea).
Schlosser, M. 1887 B, 9 (Anthropomorphæ).
1911 A, 60, 62, 145 (Anthropoidea).
Scott, W. B. 1913 A, 578 (Anthropoidea).
Smith, G. E. 1920 A, 467 (Anthropoidea).
Terra, P. 1911 A, 352 (Anthropoidæ).
Thacker, A. G. 1922 A, 603 (Anthropoidea).
1923 A, 384 (Anthropoidea).
Wallis, W. D. 1925 A, 62 ("apes").
Weber and Abel 1928 A, 716, 880, 881 (Anthropoidea); 784, 811, 881 (Anthropomorphæ).
Weber and Burlet 1927 A, xv (Anthropoiden).
Weidenreich, F. 1922 B, 60 ("anthropomorphen").
Winge, H. 1924 A, 271, 310 (Simiidæ).
Wood-Jones, F. 1920 A, 491 (Anthropoidea).
Woodward, A. S. 1898 B, 406 (Anthropoidea).
1917 D, lix (Anthropoidea).
Worthmann, F. 1922 A, 307 ("affen").
Wortman, J. L. 1903 A, 411 (Anthropoidea).
1904 A, 23 (Anthropoidea).
Wright, R. R. 1883 A, 493 (Anthropoidea).
Zittel and Schlosser 1911 A, 551 (Anthropoidea).
1923 A, 646 (Anthropoidea).

Superfamily PONGOIDÆ, new name.

Bertelli, D. 1909 A, figs. 27, 33 (Simia).
Brauer, A. 1914 A, 269 (Catarrhini).
Freudenberg, W. 1923 A, 122 ("menschenaffen").
Geoffroy-St. Hilaire, E. F. 1912 A, 86 (Catarrhini).
Gill, T. 1872 A, 296 (Simiæ).
1872 B, 1 (Simiæ catarrhinæ).
Gregory, W. K. 1910 A, 321 (Simiæ).
1922 A, 533 (Catarrhinæ).
Gruber, W. 1873 A, 338 (Simiæ).
Hill-Tout, C. 1924 A, 236 ("anthropoid apes").
Hrdlička, A. 1924 A, 112 ("anthropoid apes").
Morton, D. J. 1924 A, 27 ("anthropoid apes").
Mysberg, W. A. 1917 A, 658 (Simiæ).
Owen, R. 1845 B, 1440, pls. cxvi-cxx (catarhines").
Pocock, R. I. 1916 G, 548 (Catarhini).
1920 A, 495 (Catarhini).
Remane, A. 1922 A ("anthropoiden").
Smith, G. E. 1920 A, 475 ("catarhines").
Terra, P. 1911 A, 351 (Catarrhini).
Thacker, A. G. 1914 A, 280 ("apes").
1922 A, 603, 605 (Catarrhina).
1923 A, 384 (Catarrhina).
Weber and Abel 1928 A, 797, 825 (Catarrhina).
Weber and Burlet 1927 A, xv (Catarhina).
Wright, R. R. 1883 A, 510 (Catarrhini, Simiadæ).
Zaaijer, T. 1894 A, 339 (Simiæ).
Zittel, K. A. 1893 B, 705 (Catarrhini); 708 (Anthropomorphidæ).
Zittel and Schlosser 1911 A, 555 (Simiidæ).
1923 A, 651 (Simiidæ).

PONGIDÆ.

Appleton, A. B. 1922 A, 297 (Simiidæ).
Arldt, T. 1907 D, 638 (Anthropomorphidæ).
Black, D. 1925 A, 149 (Simiidæ).
Boule, M. 1923 A, 69 (Simiidæ).
Gill, T. 1872 A, 296 (Simiidæ).
Gill, T. 1872 B, 1 (Simiidæ).
Gregory, W. K. 1922 A, 302, 412 (Simiidæ).
1927 G, 268, 272, fig. 1 ("chimpanzee").
1927 I, 550 (Simiidæ).
1927 J, 451 (Simiidæ).

Gregory and Hellman 1926 A, 9 ("anthropoid apes").
Huxley, T. 1864 D, 648 (Anthropomorpha).
Lydekker, R. 1885 B, 1 (Simiidæ).
Mivart, St. G. 1874 B, 10 (Simiadæ).
Mollison, T. 1924 A, 712 (Simiidæ).
Osborn, H. F. 1910 B, 545 (Simiidæ).
1922 E, 283 (Simiidæ).
1927 A (Simiidæ).
1928 B, 194, 196 (Simiidæ).
Owen, R. 1835 A, 23, 38 (Pongo).
Pilgrim, G. E. 1915 A, 9 (Simiidæ).
Remane, A. 1921 A, 339 (Simiidæ).
1922 A (Simiidæ).
Schlosser, M. 1911 A, 52, 62 (Simiidæ).
Thacker, A. G. 1914 A, 280 (Simiidæ).
1922 A, 604 (Simiidæ).
Todd, T. W. 1922 A, 281 (Pongo).
Trouessart, E. L. 1904 A, 1 (Simiidæ).
Winge, H. 1924 A, 277 (Simiini).
Woodward, A. S. 1898 B, 406 (Simiidæ).

Inasmuch as the genus *Hesperopithecus* (*Prosthennops*) was formerly referred to this family, the citations to the literature of Pongoidæ and Pongidæ are retained.

ADDENDA ET CORRIGENDA

On page 155 of volume I of this work the paper designated as Elliot, Smith G, 1921 A should have been entered as Smith, G. E. 1921 A.

On page 162 of the same volume a paper designated as Flower, W. H., 1886 A ought to have been recorded as Woodward, A. S. 1886 A.

On page 718 of the first volume the Ostariophysi are called a Class. They form an Order only.

On page 181, volume II of this book under *Dromaeosaurus? gracilis* the following entry should have been made:

Schuchert, C. 1910 A, 536 (C. medius).

The following species should appear on page 111 of the present volume:

Amyda? pennata (Cope).

Hay, O. P. 1902 A, 454 (Trionyx).
1908 A, 511, 554, pl. xcvi, fig. 6 (Amyda).
Eocene (Shark River?); New Jersey.

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